## NATIONAL TRANSPORTATION SAFETY BOARD OFFICE OF AVIATION SAFETY WASHINGTON, D.C.

#### March 24, 2001

## SYSTEMS AND POWERPLANTS GROUP CHAIRMAN'S FACTUAL REPORT OF INVESTIGATION

A. ACCIDENT: MIA99FA245

LOCATION: Palm Beach International Airport, West Palm Beach,

Florida

DATE: September 3, 1999

TIME: 0335 Eastern Standard Time (EST)

AIRCRAFT: Beachcraft B90 King Air, N338AS, Operated by CP

Horizons, Inc.

#### B. GROUP MEMBERS

Group Chairman Ronald C. Price

National Transportation Safety Board

Washington, D.C.

Member Thomas A. Berthe

Pratt and Whitney Canada Longueuil, Quebec, Canada

Member Harold R. Barrentine

Raytheon Aircraft Company

Wichita, Kansas

#### C. SUMMARY

On September 3, 1999, at 0327 EST, a Beachcraft B90 King Air, N338AS, serial number LJ-493, was destroyed by impact forces and post crash fire when it crashed into a building and came to rest in a cluster of trees ½ mile short of runway 13 at the Palm Beach International Airport, West Palm Beach, Florida. The airplane was being operated as a CFR Part 91 flight that originated from Pontiac, Michigan. The flight was filed under IFR and was enroute to the Boca Raton airport when the pilot requested an immediate approach to Palm Beach. ATC gave the aircraft a visual approach to runway 13. Shortly therafter, the pilot transmitted a mayday call, then crashed. A witness stated that the engine sounds were changing just before the crash. The pilot, student rated/passenger¹, and seven passengers were fatally injured.

The Systems/Powerplants Group was formed to record and document the pertinent information regarding the airplane systems and powerplants. The group began its investigation on September 3, 1999 and concluded the on-site/hangar investigation on September 5, 1999.

#### D. <u>DETAILS OF THE INVESTIGATION</u>

#### 1.0 DAMAGE

The aircraft was destroyed by impact forces and post crash fire. The airplane's left wing and empennage were broken from the fuselage but remained attached by cables. No airplane parts were found before the initial impact point. All of the airplane was accounted for at the accident site. The airplane was found inverted with the left wing folded along the fuselage and the empennage rotated 180 degrees about the longitudinal axis and to the left of the fuselage. The nose wheel assembly and strut were found in the building and the right main tire was found near the building's front. There was no evidence of metal splattering, soot streaking, or heat damage along any horizontal plane. All of the heat damage was vertical and melted metal found directly beneath the fuselage.

#### 2.0 <u>HISTORY</u>

The aircraft records indicated that it was manufactured in 1970 by Beachcraft

<sup>&</sup>lt;sup>1</sup> The owner/operator of the airplane held a third class medical license and was occupying the right seat of the single pilot turbo-prop airplane.

Aircraft Company. The available aircraft records indicated that the airframe had accumulated about 8,996 flight hours and about 7,510 cycles. The airplane was owned by CP Horizon Corporation. The airplane records obtained from the FAA indicated that it had been exported to France in 1993, returned in 1995, exported to South America in 1995, then returned in February 1999. The maintenance records indicated that an annual inspection had been performed in February 1999 along with extensive maintenance<sup>2</sup> that was performed from February 1999 through June 1999. A new airworthiness certificate was issued by the FAA in February 1999.

#### 3.0 AIRFRAME

The airplane was found inverted with its right wing resting on a fence. The fuselage was found fire damaged with the floor of the cabin consumed by fire The main landing gear assemblies were found in the extended position but the struts including the wheel assemblies were separated from the main cylinders. The nose gear strut cylinder and extension assembly was separated from the fuselage attach points and in an extended position. The nose gear strut and wheel assembly were separated from the strut cylinder. The radar assembly and its mounting points were separated and found with the nose gear structure assembly near the front of the fuselage. The lower forward fuselage was crushed from the nose radome aft to the wing root. The remainder of the lower forward fuselage was 50% consumed by fire and torn from the fuselage during recovery.

#### 3.1 AIR/PNEUMATICS

The airplane's air/pneumatic systems were found separated into the sections of the airframe. No evidence of failures or in-flight malfunctions were found. The outflow valves were found in the open position with no sooting or other malfunctions evident. The valves were integral to the aft bulkhead structure and exhibited no damage. The cabin air ventilation supply lines were found separated with the sections of the airframe and had major fire damage to the outside surface throughout the cabin area. The ventilation supply system did not have fire damage in other areas either inside or outside surfaces. No soot was found in the ventilation system.

The compressor/blower was found separated but near its attach points. The blower was found with no evidence of heat damage, sooting, or evidence of malfunction during flight. The combustion heater was found severely impact

<sup>&</sup>lt;sup>2</sup> For details of the maintenance see appendix C.

damaged with no evidence of in-flight fire or overheat. There was no evidence of fuel leakage in or around the heater. The ducting was crushed and separated from the heater exhaust. There was heat damage around the separated exhaust ducting.

#### 3.2 Air Conditioning

The air-conditioning assemblies were destroyed in the impact sequence. The compressor assembly was examined for evidence of over heat, none was found. The air conditioning system was not integral to the structure of the airframe, arcing or in-flight failures or malfunctions was not found. The combustion heater was examined for evince of over heating or in-flight failure. None were found. The heater was destroyed by impact forces.

#### 3.3 Doors

The door was found locked and in place in the fuselage. The door locking mechanism functioned normally during the on-scene examination. The emergency exit of the airplane was integral to the structure. The top 50% was integral to the fuselage and the locking lugs were inplace and locked. The emergency exit was half consumed by fire.

#### 3.4 FUEL SYSTEM

The Beechcraft King Air B90 fuel system consists of ten individual fuel tanks interconnected to supply fuel to the two turbines. There are five tanks in each wing that combine to provide fuel to each respective engine. The two separate systems are connected by a crossfeed valve. The valve is operated electrically by the pilot or automatically when the fuel pressure in either system drops. There are electric boost pumps in each nacelle tank and electric transfer pumps in each wing. The nacelle tanks have 61 usable gallons and the wing tanks have 131 gallons. There is a total usable fuel quantity of 384 gallons. There is some unusable fuel in each tank.

The nacelle tank for each engine is considered the main fuel tank. During flight, each main tank supplies fuel to its respective engine. The crossfeed valve is used to supply fuel from one system to both engines. Check valves in the fuel lines prevent fuel from being transferred from one side fuel system to the other. There are firewall fuel shutoff valves for each engine.

The airframe fuel system was examined for evidence of failures, malfunctions

or contaminates. The left nacelle, main, and right nacelle tanks had been breached and a faint odor of fuel was left near the resting place of the tanks. About two gallons of fuel was recovered from the right nacelle tank. The fuel was straw colored, clear, and free of extensive particles. There was no evidence of fuel staining or discoloration aft of any fuel components or caps. There was no evidence of fuel leak in the engine compartments. The fuel panel was examined for switch position. The upper outer switches were in the up position. The inner upper switches were in the down position. The lower switch was in the full up and locked position. The upper center switch was in the neutral position.

#### 3.5 ELECTRICAL

The electrical systems of the airplane were destroyed by impact and post crash fire. The airplane's lead acid battery was found intact with no damage, no arcing, and no evidence of over temperature. The associated wiring in the battery compartment was not damaged and was intact with no evidence of arcing.

The nacelle electrical leads in both engine compartments aft of the firewall were examined and did not exhibit any evidence of over heating, arcing, or chafed insulation. The wiring in both wings was examined and did not exhibit any arcing. The wiring in the fire damaged areas of the airplane were examined for arcing, inflight failures, or malfunctions. None were found.

The wiring throughout the cabin area was characterized by fire damaged wires, missing insulation, and melted terminal blocks. No evidence of in-flight failures were found. The circuit breakers were fire damaged and did not exhibit any arcing from the wiring supply to the structure.

#### 3.6 FLIGHT CONTROLS

The flight controls were found in their respective attach areas throughout the structure of the airframe. The ailerons were integral to their respective attach areas except the outboard hinge on the right aileron was torn from its mounting structure consistent with the structural deformity of the wing. The elevators and rudder were integral to their respective mounting points except for the right hand outboard elevator was bent consistent to the deformity of the horizontal stabilizer.

The control cables were loose throughout the airframe but the cables were followed along their respective paths from the control points in the cockpit to the flight surface. No major flight control cable was broken. The trim cables were followed and the trim cables to the empennage were found torn, however, the trim positions of the cockpit controls matched the trim positions of the tabs. None of the trim tabs were found at other than neutral position.

The flaps were found in the up position. Portions of the flap drive system in the cabin floor area was consumed by post crash fire.

#### 3.7COCKPIT INSTRUMENTS

The cockpit instruments were found integral to their respective mounting structure and had soot covering the outside glass instrument faces. The engine instruments were indicating zero with the exception of the left fuel flow gauge which indicated about 280 pounds per hour. The flight instruments indicated that the airplane heading was 130 degrees, airspeed zero, altitude 50 feet, and an attitude of pitch level with a 15 degree left bank. The fuel quantity gauges indicated zero.

The engine control levers were generally forward. The condition levers were found full forward. The left propeller lever was slightly aft of the right which was found full forward. The power levers were found with the right full forward and the left slightly aft of full forward.

#### 4.0 **POWERPLANTS**

#### 4.1 <u>LEFT ENGINE</u>

The left engine is a Pratt and Whitney PT6A-20, serial number PCE-20801. According to the aircraft maintenance records the engine total time in service was 24, There were no reported malfunctions. The engine could not be rotated by hand. The engine was retained for examination at the manufacturer's facility.

#### 4.2 <u>RIGHT ENGINE</u>

The right engine is a Pratt and Whitney PT6A-20, serial number PCE-20801. There were no reported malfunctions. The engine could not be rotated by hand

#### 5.0 TESTS AND RESEARCH

The airplane had departed Pontiac, Michigan (PTK) enroute to Boca Raton (BCT), a trip of about 950 nautical miles. According to the FAA, the enroute time was about 4.9 hours. The airplane had departed about 1.4 hours after its proposed time. The pilot initiated planned enroute flight time on the FAA flight plan was 5 hours and the planned fuel on board was 6 hours. The airplane had been weighed in February 1999 and its empty weight was measured to be 6,255 pounds. The weight of the passengers, pilot, and baggage was measured to be 1,544 pounds. airplane's maximum gross weight was limited to 9,650. Calculations showed that full fuel weight would have been about 2,573 pounds. The pilot had 282 gallons of fuel added in PTK. According to the airplane's flight manual, the fuel flow at 15,000 feet cruising altitude at 218 true airspeed would be about 525 lbs/hr. The airplane flight manual indicated that the time to climb and fuel used would have been 24 minutes and 220 pounds respectfully. According to the refuelers, the fuel tanks were full after being serviced at PTK. Sample calculations indicate that the fuel burn rate would have caused the airplane to use 2,576 pounds of Jet A turbine fuel during the flight. See appendix C for a report of the forecast cruise winds from PTK to PBI. The sample calculations do not consider performance degradation for operating the airplane above the maximum allowable gross weight. Calculations of the maximum allowable fuel that could be on board the aircraft showed that only 1851 pounds of turbine fuel could be carried to start the flight at the maximum allowable weight.

> Ronald C. Price Aerospace Engineer

#### APPENDIX A

AIRWORTHINESS DOCUMENTS

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NATIONALITY AND		AIRCRA	FT SERIAL NO.	
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Robert R. Cernude
FAA Designated Airworthiness Representative
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#### UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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#### **APPLICATION FOR AIRWORTHINESS**

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Make: Beechcraft Model: B90 Serial Number: LJ-493 Date: 5 April 1999 Total Time: 8756.1 Hobbs: 1325.4 Total Landings: 7440Registration: N338AS

Performed Annual inspection of Aircraft in accordance with Beech InspectionProgram, Progressive, and or Continuous Airworthiness inspection records were taken into considerations well as FAR 43 Appd D. Complied with Aileron Detailed Inspection Removed and re-installed overhauled primary propeller governor P/NA210578 S/N 2184033R from left hand engine after overhaul by EMI and primary propeller governors P/N A210578 S/N 2246039R from right hand engine after overhaul by EMI. Removed and re-installed over speed propeller governor P/N A210507 S/N 14761110 from left hand engine after overhaul by EMI and over speed propeller governor P/N A210507 S/N 1298750U-V after overhaul by EMI. Removed and replaced oxygen cylinder with new part number 3HT1850 S/N serial number 1A564508P. Removed and replaced L/H engine prop cable/N 55-4853-2094 with new Removed and replaced right hand brake assembly with overhauled unit P/N 50-300010-119 S/N A3583 Removed and replaced left hand brake assembly with overhauled unit P/N 50-300010-119 S/N B4182. Removed and replaced air conditioning exhaust fan duct P/N 50-380047 with new. Removed and replaced right and left hand throttle ice protection boots P/N AD964-2 with new. Replaced bushings on left hand main gear torque knee upper and lower with new and replaced grease fittings. Removed and replaced left hand engine fuel line P/N 3013469 from heater to engine fuel pump. Removed and replaced upper cable assembly P/N 1440-3 on main cabin door. Removed and replaced combustion heater fan motor with overhauled unit P/N 24A9238 S/N A712. Removed and replaced right hand fuel vent heat tube P/N EE366R with new. Removed and replace left hand fuel vent heat tube P/N EE366L with new. Adjusted nose gear chain. Serviced all struts with nitrogen Removed and replaced left hand aux tank with overhauled unit P/N 50-389035-13 S/N CR508. Removed and replaced right hand engine ice vane door spring P/N50-190274 with new. Removed and replaced right and left hand generator paralleling rheostats P/N RES2RO with new. Removed and replaced #2 inverter with overhauled unit P/N 32E01-2A S/N RK-1924. Right and left hand propellers repaired see 8130-3. Removed and replaced bushing and hardware in rudder tab with new Removed and replaced bushings and hardware on left and right hand elevator trim tabs with new. Removed and replaced ELT P/N ELT10 S/N94909 with serviceable unit. Removed and replaced ELT battery with new P/N BP1010 Next due change 5/01. Removed Storm scope WX1000 system from aircraft and installed doublers. C/W AD's 77-22-01, 87-22-01R1, 82-23-02, 89-25-10 All work accomplished in accordance with Beechcraft Inspection Program, all applicable FAR and 43 Apex D. I certify that this Aircraft has been inspected in accordance with an annual type inspection and all A.D. Notes checked thru bi weekly issue 99-06 for applicability and compliances see attached listing.. and I certify that this aircraft is in airworthy condition. See WO# 1935 dated 4-5-99.-----END-------END------Anthony Irwin AP

Make: Pratt & Whitney Model: PT6A-20 Serial Number: PCE-22008 Date: 5 April 1999 Total Time: 8756.1 Hobbs: 1325.4 Total Landings: 7440Registration: N338AS Performed Annual inspection of Engine in accordance with Beech InspectionProgram, Progressive. and or Continuous Airworthiness inspection records were taken into considerations well as FAR 43 Appd D. Complied with Aileron Detailed Inspection Removed and re-installed overhauled primary propeller governor P/NA210578 S/N 2184033R from left hand engine after overhaul by EMI and primary propeller governors P/N A210578 S/N 2246039R from right hand engine after overhaul by EMI. Removed and re-installed over speed propeller governor P/N A210507 S/N 14761110 from left hand engine after overhaul by EMI and over speed propeller governor P/N A210507 S/N 1298750U-V after overhaul by EMI. Removed and replaced oxygen cylinder with new part number 3HT1850 S/N serial number 1A564508P. Removed and replaced L/H engine prop cable/N 55-4853-2094 with new. Removed and replaced right hand brake assembly with overhauled unit P/N 50-300010-119 S/N A3583 Removed and replaced left hand brake assembly with overhauled unit P/N 50-300010-119 S/N B4182. Removed and replaced air conditioning exhaust fan duct P/N 50-380047 with new. Removed and replaced right and left hand throttle ice protection boots P/N AD964-2 with new. Replaced bushings on left hand main gear torque knee upper and lower with new and replaced grease fittings. Removed and replaced left hand engine fuel line P/N 3013469 from heater to engine fuel pump. Removed and replaced upper cable assembly P/N 1440-3 on main cabin door. Removed and replaced combustion heater fan motor with overhauled unit P/N 24A9238 S/N A712. Removed and replaced right hand fuel vent heat tube P/N EE366R with new. Removed and replace left hand fuel vent heat tube P/N EE366L with new. Adjusted nose gear chain. Serviced all struts with nitrogen Removed and replaced left hand aux tank with overhauled unit P/N 50-389035-13 S/N CR508. Removed and replaced right hand engine ice vane door spring P/N50-190274 with new. Removed and replaced right and left hand generator paralleling rheostats P/N RES2RO with new. Removed and replaced #2 inverter with overhauled unit P/N 32E01-2A S/N RK-1924. Right and left hand propellers repaired see 8130-3. Removed and replaced bushing and hardware in rudder tab with new. Removed and replaced bushings and hardware on left and right hand elevator trim tabs with new. Removed and replaced ELT P/N ELT10 S/N94909 with serviceable unit. Removed and replaced ELT battery with new P/N BP1010 Next due change 5/01. Removed Storm scope WX1000 system from aircraft and installed doublers. C/W AD's 77-22-01, 87-22-01R1, 82-23-02, 89-25-10 All work accomplished in accordance with Beechcraft Inspection Program, all applicable FAR and 43 Apex D. I certify that this Engine has been inspected in accordance with an annual type inspection and all A.D. Notes checked thru bi

weekly issue 99-06 for applicability and compliances see attached listing, and I certify that this aircraft is in airworthy condition. See WO# 1935 dated 4-5-99.----END------

Anthony Irwin AP

Make: Pratt & Whitney Model: PT6A-20 Serial Number: PCE-20801 Date: 5 April 1999
Total Time: 8756 1 Hobbs: 1325 1 Total Undings: 7440 Pagistration: N338AS

Total Time: 8756.1 Hobbs: 1325.4 Total Landings: 7440Registration: N338AS Performed Annual inspection of Engine in accordance with Beech InspectionProgram, Progressive. and or Continuous Airworthiness inspection records were taken into considerations well as FAR 43 Appd D. Complied with Aileron Detailed Inspection Removed and re-installed overhauled primary propeller governor P/NA210578 S/N 2184033R from left hand engine after overhaul by EMI and primary propeller governors P/N A210578 S/N 2246039R from right hand engine after overhaul by EMI. Removed and re-installed over speed propeller governor P/N A210507 S/N 14761110 from left hand engine after overhaul by EMI and over speed propeller governor P/N A210507 S/N 1298750U-V after overhaul by EMI. Removed and replaced oxygen evlinder with new part number 3HT1850 S/N serial number 1A564508P. Removed and replaced L/H engine prop cable/N 55-4853-2094 with new. Removed and replaced right hand brake assembly with overhauled unit P/N 50-300010-119 S/N A3583 Removed and replaced left hand brake assembly with overhauled unit P/N 50-300010-119 S/N B4182. Removed and replaced air conditioning exhaust fan duct P/N 50-380047 with new. Removed and replaced right and left hand throttle ice protection boots P/N AD964-2 with new. Replaced bushings on left hand main gear torque knee upper and lower with new and replaced grease fittings. Removed and replaced left hand engine fuel line P/N 3013469 from heater to engine fue! pump. Removed and replaced upper cable assembly P/N 1440-3 on main cabin door. Removed and replaced combustion heater fan motor with overhauled unit P/N 24A9238 S/N A712. Removed and replaced right hand fuel vent heat tube P/N EE366R with new. Removed and replace left hand fuel vent heat tube P/N EE366L with new. Adjusted nose gear chain. Serviced all struts with nitrogen Removed and replaced left hand aux tank with overhauled unit P/N 50-389035-13 S/N CR508. Removed and replaced right hand engine ice vane door spring P/N50-190274 with new. Removed and replaced right and left hand generator paralleling rheostats P/N RES2RO with new. Removed and replaced #2 inverter with overhauled unit P/N 32E01-2A S/N RK-1924. Right and left hand propellers repaired see 8130-3. Removed and replaced bushing and hardware in rudder tab with new. Removed and replaced bushings and hardware on left and right hand elevator trim tabs with new. Removed and replaced ELT P/N ELT10 S/N94909 with serviceable unit. Removed and replaced ELT battery with new P/N BP1010 Next due change 5/01. Removed Storm scope WX1000 system from aircraft and installed doublers. C/W AD's 77-22-01. 87-22-01R1, 82-23-02, 89-25-10 All work accomplished in accordance with Beechcraft Inspection Program, all applicable FAR and 43 Apex D. I certify that this Engine has been inspected in accordance with an annual type inspection and all A.D. Notes checked thru bi weekly issue 99-06 for applicability and compliances see attached listing, and I certify that this aircraft is in airworthy condition. See WO# 1935 dated 4-5-99.----END------END-----Anthony Irwin AP

Make: Hartzell Model: HC-B3TN-3B Serial Number: BU10988 Date: 5 April 1999 Total Time: 8756.1 Hobbs: 1325.4 Total Landings: 7440Registration: N338AS

Performed Annual inspection of Propeller in accordance with Beech InspectionProgram, Progressive, and or Continuous Airworthiness inspection records were taken into considerations well as FAR 43 Appd D. Complied with Aileron Detailed Inspection Removed and re-installed overhauled primary propeller governor P/NA210578 S/N 2184033R from left hand engine after overhaul by EMI and primary propeller governors P/N A210578 S/N 2246039R from right hand engine after overhaul by EMI. Removed and re-installed over speed propeller governor P/N A210507 S/N 14761110 from left hand engine after overhaul by EMI and over speed propeller governor P/N A210507 S/N 1298750U-V after overhaul by EMI. Removed and replaced oxygen cylinder with new part number 3HT1850 S/N serial number 1A564508P. Removed and replaced L/H engine prop cable/N 55-4853-2094 with new. Removed and replaced right hand brake assembly with overhauled unit P/N 50-300010-119 S/N A3583 Removed and replaced left hand brake assembly with overhauled unit P/N 50-300010-119 S/N B4182. Removed and replaced air conditioning exhaust fan duct P/N 50-380047 with new. Removed and replaced right and left hand throttle ice protection boots P/N AD964-2 with new. Replaced bushings on left hand main gear torque knee upper and lower with new and replaced grease fittings. Removed and replaced left hand engine fuel line P/N 3013469 from heater to engine fuel pump. Removed and replaced upper cable assembly P/N 1440-3 on main cabin door. Removed and replaced combustion heater fan motor with overhauled unit P/N 24A9238 S/N A712. Removed and replaced right hand fuel vent heat tube P/N EE366R with new. Removed and replace left hand fuel vent heat tube P/N EE366L with new. Adjusted nose gear chain. Serviced all struts with nitrogen Removed and replaced left hand aux tank with overhauled unit P/N 50-389035-13 S/N CR508. Removed and replaced right hand engine ice vane door spring P/N50-190274 with new. Removed and replaced right and left hand generator paralleling rheostats P/N RES2RO with new. Removed and replaced #2 inverter with overhauled unit P/N 32E01-2A S/N RK-1924. Right and left hand propellers repaired see 8130-3. Removed and replaced bushing and hardware in rudder tab with new. Removed and replaced bushings and hardware on left and right hand elevator trim tabs with new. Removed and replaced ELT P/N ELT10 S/N94909 with serviceable unit. Removed and replaced ELT battery with new P/N BP1010 Next due change 5/01. Removed Storm scope WX1000 system from aircraft and installed doublers. C/W AD's 77-22-01, 87-22-01R1, 82-23-02, 89-25-10 All work accomplished in accordance with Beechcraft Inspection Program, all applicable FAR and 43 Apex D. I certify that this Propeller has been inspected in accordance with an annual type inspection and all A.D. Notes checked thru bi weekly issue 99-06 for applicability and compliances see attached listing,, and I certify that this aircraft is in airworthy condition. See WO# 1935 dated 4-5-99. -----END------END-----Anthony Irwin AP

Make: Hartzell Model: HC-B3TN-3B Serial Number: BUA19506 Date: 5 April 1999 Total Time: 8756.1 Hobbs: 1325.4 Total Landings: 7440Registration: N338AS

Performed Annual inspection of Propeller in accordance with Beech InspectionProgram, Progressive. and or Continuous Airworthiness inspection records were taken into considerations well as FAR 43 Appd D. Complied with Aileron Detailed Inspection Removed and re-installed overhauled primary propeller governor P/NA210578 S/N 2184033R from left hand engine after overhaul by EMI and primary propeller governors P/N A210578 S/N 2246039R from right hand engine after overhaul by EMI. Removed and re-installed over speed propeller governor P/N A210507 S/N 14761110 from left hand engine after overhaul by EMI and over speed propeller governor P/N A210507 S/N 1298750U-V after overhaul by EMI. Removed and replaced oxygen cylinder with new part number 3HT1850 S/N serial number 1A564508P. Removed and replaced L/H engine prop cable/N 55-4853-2094 with new. Removed and replaced right hand brake assembly with overhauled unit P/N 50-300010-119 S/N A3583 Removed and replaced left hand brake assembly with overhauled unit P/N 50-300010-119 S/N B4182. Removed and replaced air conditioning exhaust fan duct P/N 50-380047 with new. Removed and replaced right and left hand throttle ice protection boots P/N AD964-2 with new. Replaced bushings on left hand main gear torque knee upper and lower with new and replaced grease fittings. Removed and replaced left hand engine fuel line P/N 3013469 from heater to engine fue! pump. Removed and replaced upper cable assembly P/N 1440-3 on main cabin door. Removed and replaced combustion heater fan motor with overhauled unit P/N 24A9238 S/N A712. Removed and replaced right hand fuel vent heat tube P/N EE366R with new. Removed and replace left hand fuel vent heat tube P/N EE366L with new. Adjusted nose gear chain. Serviced all struts with nitrogen Removed and replaced left hand aux tank with overhauled unit P/N 50-389035-13 S/N CR508. Removed and replaced right hand engine ice vane door spring P/N50-190274 with new. Removed and replaced right and left hand generator paralleling rheostats P/N RES2RO with new. Removed and replaced #2 inverter with overhauled unit P/N 32E01-2A S/N RK-1924. Right and left hand propellers repaired see \$130-3. Removed and replaced bushing and hardware in rudder tab with new. Removed and replaced bushings and hardware on left and right hand elevator trim tabs with new. Removed and replaced ELT P/N ELT10 S/N94909 with serviceable unit. Removed and replaced ELT battery with new P/N BP1010 Next due change 5/01. Removed Storm scope WX1000 system from aircraft and installed doublers. C/W AD's 77-22-01, 87-22-01R1, 82-23-02, 89-25-10 All work accomplished in accordance with Beechcraft Inspection Program, all applicable FAR and 43 Apex D. I certify that this Propeller has been inspected in accordance with an annual type inspection and all A.D. Notes checked thru bi weekly issue 99-06 for applicability and compliances see attached listing, and I certify that this aircraft is in airworthy condition. See WO# 1935 dated 4-5-99.-----END-------Anthony Irwin AP

## U.S. for Recurrent Certification

Page 1 of 3

Reg. Number: N338AS	Aircraft Mig.: REECH	(r. Mfg.: 4a i 17/1
Model: 390	Serial Number: <u>LJ493</u>	
ACTT: 8756.1 Tlandings 7440	Data of Americal	
Performed By: ANTHONY TRWIN	Cert.:	
Latest A.D. Bi-Weekly Rev. #: 99-0		
Static Sys Date: SEPT 1998	ELT Date: MAY	200/
Any STCs Installed: VCS - STC# SA	4615.EA / SA 2569, W	IE.
	· /	•
ENGINES: Mfg.: PRATT BW	HONEY	•
Eng. T.C. Data Sheet #:	EYEA	
LEFT:	RIGHT:	
Model: P16A-20	Model: PT6A-20	
S/N: PCE-26801	SN: PCE -22008	
Total Time: 24,873,8	Total Time: 32, 446. 7	
T.S.M.O.H.: 2925.8	T.S.M.O.H.: 3/13.7	
T.S.H.S.I. (if appl.): 23.35 HAS-	T.S.H.S.I. (if appl.): 23. 35 Hz>	
PROPELLERS (if appl.): Mfg. HAR	TZELL	
R Prop. T.C. D	ata Sheet #: PISEA	
Model: HC-B3TN-3B	Model: HC-B3TN-3	3
Blade Dwg.: T16 173 B - 82	Blade Dwg.: 7/0/733-8R	
S/N: BU 10988	SIN: - BUA 19506	
• • •	Total Time: 10,093.35	
T.S.M.O.H.: 394 3	T.S.M.O.H.: 394.3	

Aircraft Recurrent Checklist - Continued	Page 2 of 3
1. Proof of Previous Aircraft holding U.S. Certificate of Airworthiness (via C U.S. Certificate of Airworthiness, Copy of Airframe Logbook entry for iss Certificate of Airworthiness, Copy of Previous U.S. Export Certificate of Copy of Airframe Logbook entry for issuance of U.S. Export Certificate Airworthiness.	nuance of U.S. Airworthiness,
2. Current and Valid U.S. Registration (FAA form # 8050-3).	
3. Current Export Certificate of Airworthiness from Country of Export?	
4. Original - "Purchaser's Copy" of Bill of Sale (FAA form # 8050-2), if recently sold.	
<ul> <li>a. If recently purchased, verbal confirmation by FAA Registry, AVN-450, Ok. City, OK.</li> </ul>	•
If called: Agent: Date:	•
b. Original - "Pink Copy" of Registration Application (FAA form #8050-changed.	1) if recently
5. Current and up to date - "Weight and Balance Report"  For that specific aircraft.	
6. Current - "Flight Manual or Pilot's Operating Handbook" - approved for that particular aircraft by Serial Number.	
7. Current and up to date - "Equipment List" for that particular aircraft.	
8. Major Repair & Alteration forms (FAA form # 337) for any major repairs alterations performed on that specific aircraft.	sor
9. Annual/100 hr. Type Inspections - on airframe, engines and propellers - M thirty (30) days of the Date of Application for Recurrent Certificate of Air FAR 43, Appendix D for description of inspection.	
10. Any applicable Airworthiness Directives - Must be complied with and recapplicable engine, propeller, or airframe maintenance records. Inclusive of components, appliances - ANY.	
11. All (Airframe, Engines, & Propellers) - LD. and Data Plates, verified fo Model Numbers, Part Numbers, and Serial Numbers.	or .
12. All required "PLACARDS" - as required by the Limitations Section of t Aircraft Flight Manual, the Pilot's Operating Handbook, and/or the Airc	

Aircraft Recurrent Checkl	ist - Continued	Page 3 of 3
3. Any Modifications perf	formed while under foreign registration? N	0
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note: List if performed in	accordance with any U.S. STCs.)	
ame and Address of Cur	rent Registered Owner (or forward copy of c	current U.S. Registration):
	Address:	
	State:	•
relephone:	FAX:	-
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NOTE: f acting in behalf of or as :	authorized representative for U.S. Registered	l Owner. A notarized letter must
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DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION

#### STANDARD AIRWORTHINESS CERTIFICATE NATIONALITY AND REGISTRATION MARKS 2. MANUFACTURER AND MODEL AIRCRAFT SERIAL 4. CATEGORY N388AS BEECHCRAFT B90 LJ 493 NORMAL

5. AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the I his airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed sinvorthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

#### NONE

6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended oked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as see preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of States annmoriste, and the aircraft is registered in the United

DATE OF ISSUANCE JUNE 18. FRED C. WILLIAMS 1993

DESIGNATION NUMBER DAR-80FS-SO

Any alteration reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or bott. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION RE JULATIONS

FAA Forth 8100-2 (8-82)

GPO 892-804

Date Particulars of inspections and maintenance — Minor or major overhauls  Modifications — Test flights  I FIND THAT THE AIRCRAFT MEETS THE REQUIREMENTS FOR THE CERTIFICATION REQUESTED AND  HAVE ISSUED A (STANDARD) (SPERIAL) AIR-  WORTHINGS CERTIFICATION (SPERIAL) AIR-  WORTHINGS CERTIFICATE DATED 6 - 18 - 93 -  TREDUCT WILLIAMS DAR 80 - 15 - 50		Dates Date	Détails vérifications et travaux entretiens — Révisions partielles ou géné Modifications — Essais en vol  Particulars of inspections and maintenance — Minor or major overha	Organisme de controle
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INSTR. RADIO ACCES.		ALTIMETRO COD. TRANSPONDER TRANSPONDER	IDC 28702-552 HILCOX 0977680101 HILCOX 0977680101	TYPE 519 S/N 382 1310 711			XX		
Hombre y	Dire	ccion 7	TAI	LER	· F	epresen	tan te	Teci	nico
AERO M		TCA	ler: MANTENIMIENTO Y	<del></del>		/dY ON		i. Kil	_iHiP
AEROPUERTO		TORCUATO		II: MOTORES: I (LIMIT	ADAS)	MEANIC	MAM OR	TENIM	
1.0.33 -16 TEL. 7	11-0	. TORCUATO NO 4- U		3-165			<b>IT. C N</b> Sello		
	0	1 · ·							

Don Torcuato

LUGAR Y FECHA:

Dia 25 Mes ABRIL Año: 1996 ; UENCIMIENTO: 30-ABRIL-1997

AIRCRAFT MODEL:	Beech B-90	SERIA	L: LJ-493	REGISTR	ATION: N388AS
REGISTERED OWNER	Joda Partner	ship		DATE WE	IGHED: 3-22-99
ADDRESS: 14	323 S. Outer For	ty Dr.	Ste 120	PLACE:	FXE
Тс	own & Country, Mo	63017	· TACH:		HM: 1325.5
WEIGHING POINT	SCALE READING	TARE	NET WEIGHT	ARM	MOMENT
LEFT MAIN JACK	2118.0				
		0	2118.0	195.5	414,069.0
RIGHT MAIN JACK	3287.0	0	3287.0	195.5	642,608.5
NOSE/TALL JACK	3423.0	0	3423.0	83.5	285,820.5
TOTAL AS WEIGHED	8828.0	0	8828.0	152.07 •	1,342,498.0
LESS USABLE FUEL	( 384.0 GAI	L)	-2573.0		-400,100.0
LESS USABLE FUEL	( GAI	L)		•	
			· · · · · · · · · · · · · · · · · · ·		
	<u> </u>				
VEW AIRCRAFT BASE	C TOTALS		6255.0	150.66	942,398.0
		NOTE	<u>S</u>		
AIRCRAFT WEIGHED	IN LEVEL FLIGHT	ATTITUD	E INSIDE HAN	GAR.	
Weighed full fue	el & oil, with 8	seats in	nstalled.		
		· · · · · · · · · · · · · · · · · · ·			
SCALES MODEL EW-3	-0101-312C, SERI	AL 1196	, CALIBRATED	ON: JUNE	29, 1998
NEW AIRCRAFT BASI	C WEIGHT 6255.	0 LB	. NEW	BASIC C.G.	150.66 IN.
AIRCRACT GROSS WE	<b>IGHT</b> 9650.	0 LB	. NEW	USEFUL LOAD	3395.0 LB.

AIRCRAFT WEIGHING CORPORATION 2500 N.W. 62ND STREET HANGAR B FT. LAUDERDALE, FL. 33309 954-928-1619 FAX 938-5173

AIRFRAME LICENSE NO.

324647477

WEIGHED BY

#### APPENDIX B

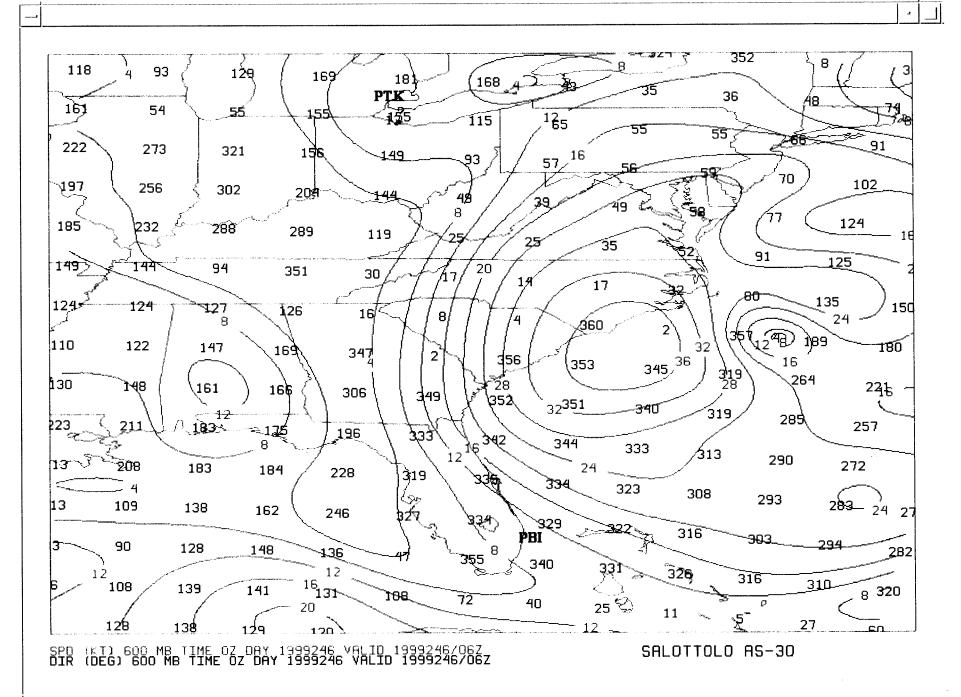
#### WEATHER DATA

# NATIONAL TRANSPORTATION SAFETY BOARD Office of Aviation Safety Washington D.C.

#### Data from McIDAS

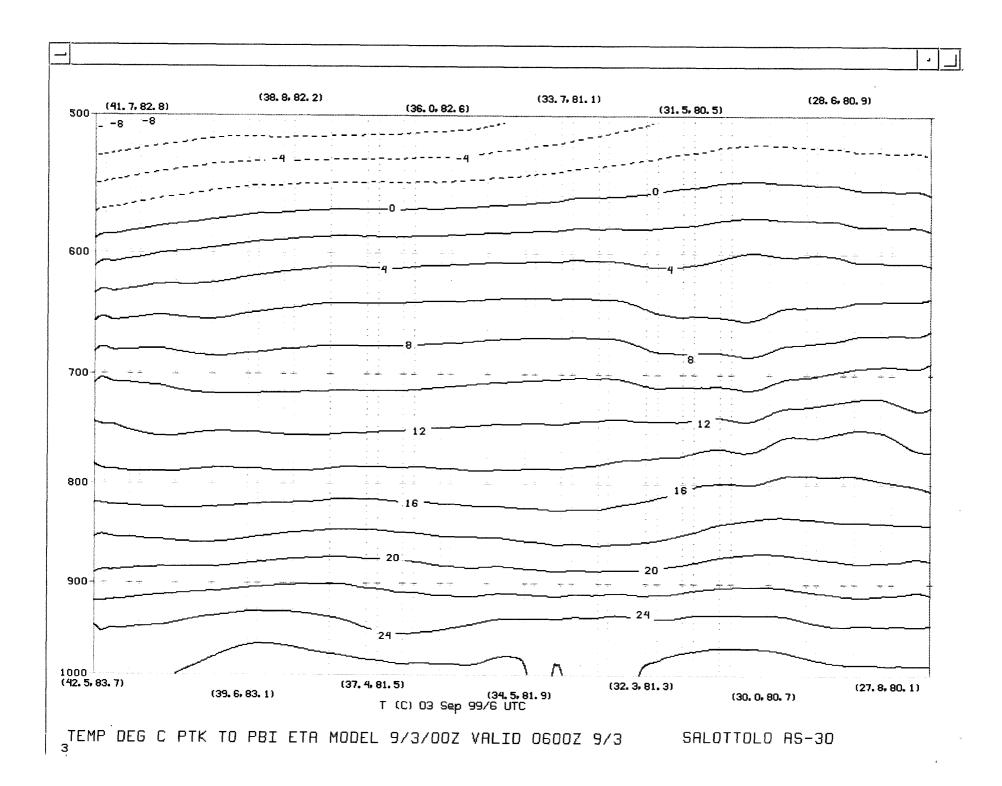
Attachments 1 and 2 ... Contours of wind speed (knots) and plot of wind direction (degrees true) based on the ETA Numerical Forecast Model for September 3, 1999 at 0000Z valid September 3, 1999 at 0600Z; contour and plot levels 600 millibars (about 13,800 feet) and 550 millibars (about 16,000 feet).

Greg Salottolo AS-30 9-8-99



W.

SALOTTOLO AS-30



INIT:

99 SEP -4 AH 10: 41

04: 15: 28

PD

**N** 

HQ WASHDC ADA40 ADA-40

TIME ACKNOWLEDGED: 030204

ORIGINATOR: KLANYFYX 015 .

AT: LN338AS FR: I AT: BE70/1 TS: 200 DD: PTK TM: P030210 AE: 150 RT: PTK. 2622/8006. BCT

AD: BCT TE: 0500 RM: \*LIFEGUARD L/L BCT OP: ZCC TA: 030710 FB: 0600 AA: PBI

PD: RIVERA BCT NB: 7 CR: W/R/GLD JJ

END OF DISPLAY

03/ D0332元

SEP 04 ' 99

56

HAZIO JUNGS/17.08

FATHTHE VETRINGN/MIA

AAT

1445

#### APPENDIX C

#### MAINTENANCE RECORDS



1575 West Commercial Blvd. Fort Lauderdale Executive Airport Florida 33309 (954) 491-3170 • FAX (954) 771-0281

WORK ORDER INVOICE

WORK ORDER: 50/15270

PAGE NUMBER DOCUMENT NUMBER

356184

DATE

: N338AS

7/30/99

AIRCRAFT BATTERY DEAD

MAINTENANCE SERVICES

5466 JODA FINANCIAL GROUP DAVID STONE 14323 S OUTER 40 ROAD SUITE 120 SOUTH TOWN & COUNTRY MO 63017

5466 I JODA FINANCIAL GROUP P DAVID STONE 14323 S OUTER 40 ROAD T SUITE 120 SOUTH

O TOWN & COUNTRY MO 63017

FAA Certified Repair Station WD4R618M

: N338AS Make : KING AIR Mode 1 : 890 Serial Number : LJ493 Flight Recorder: F.R. Changed : A/C Total Time :

Registration

Unit

.00 .00 LYNN .00

CUSTOMER REPRESENTATIVE BY .: Not Required. TERMS REFERENCE NUMBER SHIP VIA ORDER NO. ORDERED REQUESTED SHIPPED COD DELIVERED 1527d 7/06/99 7/06/99 Hassan A. Ghaffari Lesley F. Bowser

NO LN	HEM NUMBER	ITEM DESCRIPTION	ITEM REFERENCE	B A	QUANTITY	PRICE PER	Quantity	List/UOM	Discount	Sell/UOM	Extended
	D1 <del></del> AIRCRAFT BATT	ERY DEAD						•			
	ATTEMPTED TO	RY FROM AIRCRAFT SENT TO OUTSI INSTALL LOANER BATTERY PROVIDE AS BROKEN. NOTIFIED CUSTOMER. Labor Totals	DE VENDOR FOR D D BY VENDOR BUT	EEP TEI	CYCLE.	R					62.00
		Outside Service Section: EVAL FEE ON BATT SN A9611 Outside Service Totals Operation OOO1 Totals:	50510350-379					150.00	NET	150.00	150.00 150.00 <b>212.00</b>
9	PARTS RESEARC	HAINTENANCE DEPARTMENT	********	+							
	COMPLIED WITH	PARTS RESEARCH.  Operation 0997 Totals:							,		.00
9	IT HAS BEEN O	HAINTENANCE DEPARTMENT UR PLEASURE SERVING YOU AND WE TO THANK YOU FOR YOUR BUSINES:	S.	+							
	SIGNATURE:	DATE	8-3-99				4	7 do			ĺ
	BANYAN AIR SE	RVICE Operation 0999 Totals:						, • •			.00
L.		Continued on	lavit Naga					Subtotal	:		212.00

Continued on Next Page.

The Aviation Professionals

itration No

Due Out



### DISCREPANCY SHEET

PG 2 of 3 WO# 522

ITEM Written	Discrepa	ancy O A -				^	
By: #/		A/C BAT	10)	15	1) e	2!)	
Customer Auth.	_ <del> </del> _:=						<del></del>
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0 - 4 - 6							
Corrective Acti		well Bottery-	from air	ecraft	Sent to	03/5/60	le
Vendoe	/ 1	Deep Ciele!	Attenda	ed to	install	LOAM	sel_
Batter	Don	ded by Ven	doe b	iut ter	no sen	Ser C	BUCH
Non w	as Bu	1. 11 1		omen (			
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Part No. Remove	ed .	Part No. Installed		Customer	Supplied	Outside S	ervice by:
Serial No. Remo	ved	Serial No. Installed	· · · · · · · · · · · · · · · · · · ·	Functional	Test	Type of S	ervice:
O.K. to Close	Date:			<u> </u>			
	<u> </u>	TECH:	) CT		INSP:	<u> </u>	<del></del>
		PARTS L					
QTY. PART NU	MBER	DESCRIPTION		SERIAL O	<u>FF</u>	SERIAL C	N N
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Silling	Job Code:	Estimate Hours:	Actual Hour	s:	Time & Mat	erial:	Warranty



TERMS

#### 1575 West Commercial Blvd. Fort Lauderdale Executive Airport Florida 33309 (954) 491-3170 • FAX (954) 771-0281

WORK ORDER INVOICE

WORK ORDER: 80/30763

 PAGE NUMBER
 1

 DOCUMENT NUMBER
 351229

 DATE
 6/29/99

TURBINE SERVICES

FAA Certified Repair Station WD4R618M  $_{3}$ 

#### TQ & T-5 CALIBRATION/SPLIT ENGINES FOR EVAL

L   T	DAVID STO 14323 S O SUITE 120	UTER 40 ROAD				P DAV 143 T SUI	TE 120 SO	R 40 ROAD UTH RY MO 63017	F.R. Ch	Number : Recorder: anged :	.00 1.325.50	LYNN
REFEREN	CE NUMBER	SHIP VIA	ORDER N	10.	ORDERED	REQUESTED	SHIPPED	CUSTOMER	REPRESENTATIV	FKG-RA-L	Not-Required	
		DELIVERED	307	763	5/06/9	9 5/10/9	9	Michael (	). O'Keeffe		Jeffrey B. G	irothe
MBER		ITEM DESCRIPTION		ITE	M REFEREN	CF O. O	JANTITY PRICE	Quantity	List/UOM	Discoun	Sell/UOM	Extende

				1 31.0211213	-4010	100 01111	-	OUGTOWILL	THESENTATIVE				
CC	)D	DELIVERED	3070	63 5/06/99	5/1	0/99		Michael	D. O'Keeffe		Je	ffrey B. G	rothe
LN NO	ITEM NUMBER	ITEM DESCRIPTION		ITEM REFERENCI	B. O.	QUANTITY PER	PRICE	Quantity	List/UOM	Discou	int	Sell/UOM	Extende
0		TURBINE SERVICES E AND T-5 CALIBRATION											
	PERFORMED T-5	QUE VERIFICATION, NO ADD VERIFICATION, BOTH INDI INDICATORS IN ACCORDANCE Labor Totals Operation 0001 Totals:	CATORS I	REQUIRED ADJU	JSTME TENAN	NT. CE MANU	NL.						500.0 <b>500.</b> 0
0		== TURBINE SERVICES GINES AND REMOVE CT DISK	(S FOR E	/ALUATION AND	REI	NSTALL A	AFTER						
	SPLIT LEFT AN DISKS FOR EVA	D RIGHT ENGINE AT C-FLAN LUATION. Labor Totals	IGE AND	REMOVED LEFT	AND	RIGHT C			and the second second				1500.0
4	83248-1-019	Parts Section: O-RING (SAME AS	MS9388-0	019) 402		Each		8.00	.78	NE	т	.78	6.2
3	012724	RETAINER Parts Totals <b>Operation 0002 Totals:</b>	<b>.</b>	402		Each	** •	4.00	2.18	NE	T	2.18	8.7 14.9 <b>1514.9</b>
0	REMOVE HSI CO	TURBINE SERVICES  MPONENTS FROM LEFT HAND S AFTER REPAIR	ENGINE	FOR REPAIR AN	ID RE	INSTALL			e e e e e e e e e e e e e e e e e e e				
	REMOVED LEFT	HAND ENGINE HSI COMPONEN	ITS FOR E		D RE	PAIR AND							

TURBINE SERVICES

Fort Lauderdale Executive Airport Florida 33309

(954) 491-3170 • FAX (954) 771-0281

FAA Certified Repair Station WD4R618M

WORK ORDER: 80/30763 PAGE NUMBER 2 DOCUMENT NUMBER 351229 DATE 6/29/99

**WORK ORDER INVOICE** 

LYNN

TO & T-5 CALIBRATION/SPLIT ENGINES FOR EVAL

5466 JODA FINANCIAL GROUP .: . DAVID STONE
14323 S OUTER 40 ROAD
SUITE 120 SOUTH
TOWN & COUNTRY MO 63017

Registration : N338AS : N338AS Unit H 5466
I JODA FINANCIAL GROUP
P DAVID STONE
14323 S OUTER 40 ROAD
T SUITE 120 SOUTH
O TOWN & COUNTRY MO 63017 Make Model : KING AIR : B90 Serial Number: LJ493

ROAD Flight Recorder: 1,325.50

F.R. Changed: .00

A/C Total Time: 1,325.50

Flight Ckd-By: Not Required

	TERMS	REFEREN	CE NUMBER	SHIP VIA	ORDER N	O. ORDERED P	REQUES	ED SHIF	PPED	CUSTOMER	REPRESEMATIV	Çkd-By	-Not-Required	l
С	OD			DELIVERED	307	63 5/06/99	5/1	0/99			D. O'Keeffe		Jeffrey B. (	
NO.	ITEM N	UMBER		ITEM DESCRIPTION		ITEM REFERENC	DE O. X	QUANTITY	PRICE PER	Quantity	List/UOM	Discoun	Sell/UOM	Extended
			•		:									2000.00 <b>2000.0</b> 0
	REMOVE HSI CO	E HSI CO OMPONENT	MPONENTS S AFTER	FROM RIGHT HAND REPAIR										
	REPAIR		Labor	GINE HSI COMPONE Totals <b>ion 0004 Totals</b> :		REPAIR AND	KEINZ	ALLED	AFIER					2000.00 <b>2000.00</b>
		SEMBLE,		<b>NE SERVICES</b> REASSEMBLE AND M	ACHINE	LEFT HAND IN	INER E	CT DUC		*		,	<del></del> -	
	DISASS SEGMEN	SEMBLED, NTS MACH	REWORKEI INED TO Labor	D, REASSEMBLED U 10 OF 8.574. Fotals	JSING 4	OVERHAULED C	T GUI	VANE:	AND		*		No. of the control of	.00
	118962-	-01		Section: GASKET		402		Each		1.00	16.72	NET	16.72	16.72
	019551	X	(	CT VANE (PMA)		80015020-3	70	Each		4.00	357.14	NET	357.14	1428.56
	020485			SEGMENTS PMA				Each		13.00	142.85	3.99	137.30	1784.90
	020484			SEGMENTS PMA	ed_on_N	80015020-3 ext Page.	/9	Each		1.00	185.71	16.0	156.00	156.00

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Fort Lauderdale Executive Airport Florida 33309

(954) 491-3170 • FAX (954) 771-0281

FAA Certified Repair Station WD4R618M

WORK ORDER: 80/30763 PAGE NUMBER 3 DOCUMENT NUMBER 351229 DATE 6/29/99

> : N338AS : N338AS

MAKK AKAFK THAATTE

TQ & T-5 CALIBRATION/SPLIT ENGINES FOR EVAL

5466 JODA FINANCIAL GROUP DAVID STONE 14323 S OUTER 40 ROAD SUITE 120 SOUTH

5466 JODA FINANCIAL GROUP P DAVID STONE
14323 S OUTER 40 ROAD
T SUITE 120 SOUTH
O TOWN & COUNTRY MO 63017

: KING AIR Make : B90 Mode 1 Serial Number : LJ493

Registration

Unit

LYNN

ROAD Flight Recorder: 1,325.50
F.R. Changed: .00
0 63017 A/C Total Time: 1,325.50
CUSTOMER REPRESENTATIVE

CUSTOMER REPRESENTATIVE TOWN & COUNTRY MO 63017 ORDERED REQUESTED SHIPPED TERMS REFERENCE NUMBER SHIP VIA ORDER NO. 5/06/99 5/10/99 Jeffrey B. Grothe Michael D. O'Keeffe 30763 DELIVERED COD X QUANTITY PER Quantity Se11/U0M List/UOM Discount Extended ITEM NUMBER ITEM DESCRIPTION

	Parts Totals <b>Operation 0005 Totals:</b>	80015020-379							3386.18 <b>3386.18</b>
OG DISASSEMBLE, ASSEMBLY DISASSEMBLED,									20
Т019551 X	Labor Totals  Parts Section:  CT VANE (PMA)		Eacl		4.00	357.14	NET	357.14	.00 1428.56
T020484	SEGMENTS PMA	80015020-379 80015020-379	Eaci	ı	1.00	185.71	16.0	156.00	156.00
T020485	SEGMENTS PMA Parts Totals	80015020-379	Eacl	1	13.00	142.85	3.94	137.30	1784.90 3369.46 <b>3369.4</b> 6
D7 ————————————————————————————————————	Operation 0006 Totals:  TURBINE SERVICES ADE, TRUE AND BALANCE LEFT HAN	D CT DISK	_			· · · · · · · · · · · · · · · · · · ·			3303.40
 BLADED NEW DI BLADES.	SK TRUED AND BALANCED TO 8.550 Labor Totals	(SEE 8130) USING	58 NEW				1		.00
	Parts Section:	Next Page.				, · ·	·	**	

The Aviation Professionals

Florida 33309 AIR SERVICE (954) 491-3170 • FAX (954) 771-0281 WORK ORDER: 80/30763 PAGE NUMBER FAA Certified Repair Station WD4R618M TURBINE SERVICES DOCUMENT NUMBER 35122Q DATE 6/29/99 TO & T-5 CALIBRATION/SPLIT ENGINES FOR EVAL Registration : N338AS Unit : N338AS 5466 5466 Make : KING AIR JODA FINANCIAL GROUP JODA FINANCIAL GROUP Model : B90 P DAVID STONE Serial Number : LJ493 DAVID STONE 4 4 92 6 14323 S OUTER 40 ROAD Flight Recorder: 1,325,50 14323 S OUTER 40 ROAD T SUITE 120 SOUTH F.R. Changed SUITE 120 SOUTH I YNN .00 A/C Total Time : 1.325.50 TOWN & COUNTRY MO 63017 O TOWN & COUNTRY MO 63017 CUSTOMER REPRESENTATIVE REFERENCE NUMBER SHIP VIA ORDER NO. ORDERED REQUESTED SHIPPED 30763 5/06/99 5/10/99 Michael D. O'Keeffe COD DELIVERED Jeffrey B. Grothe OUANTITY PRICE **Ouantity** List/UOM Discount Sell/UOM Extended NO ITEM NUMBER ITEM DESCRIPTION ITEM REFERENCE OF T023401 CT BLADES (PMA) Each 58.00 212.85 6.0 200,00 11600.00 80015020-379 3013511 25500.00 C.T. DISC Each 1.00 26.7% 18700.00 18700.0d 50508290-379 S/N: 40B463 RIVETS Each 4.00 AN123158 .38 NET .38 1.52 AN125403 RIVETS Each 6.00 .20 NET 1.20 3010117CL3 **BALANCE WEIGHT** Each 1.00 40.11 NET 40.11 40.11 3010117CL2 BALANCE WEIGHT Each 1.00 40.11 NET 40.11 40.11 3010117CL5 BALANCE WEIGHT Each 1.00 43.27 NET 43.27 43.27 RIVET Each 58.00 3.63 210.54 3018240 NET 3.63 Parts Totals 30636.75 Operation 0007 Totals: 30636.75 --- TURBINE SERVICES DEBLADE, REBUADE, TRUE AND BALANCE RIGHT HAND CT DISK 1 BLADED, DISK (CUSTOMER FURNISHED) USING 58 NEW BLADES. TRUED AND BALANCED TO 8.550 (SEE 8130). Labor Totals .00 Parts Section: CT BLADES (PMA) Each 58.00 T023401 212.85 200.00 11600.00 800150250-379 .38 5.00 AN123158 RIVETS Each NET .38 1.90 Each NET AN125403 RIVETS 4.00 .80 3010117CL5 BALANCE WEIGHT Each 2.00 43.27 NET 43.27 86.54 B010117CL2 **BALANCE WEIGHT** Each 1.00 40.11 NET 40.11 40.11

Parts Totals

<u>Continued on Next Page</u>

The Aviation Professionals

11729.35

	AIR SER							<u> </u>	1	ORK ORDER:	80/30763
	egitado a filosoficios. Escritorios	TURBINE SERVICES	FA	A Certi	fied Re	pair S	tation WD4R6	18M P	AGE NUMB	BER	5
	· Like							D	OCUMENT	NUMBER	351229
								C	ATE		6/29/99
	B I L L T O	TQ & T-5 CALIBRATION/SPL  5466 JODA FINANCIAL GROUP DAVID STONE 14323 S OUTER 40 ROAD SUITE 120 SOUTH TOWN & COUNTRY MO 63017 ICE NUMBER SHIP VIA		S H I P T O	DAVID S 14323 S SUITE 1 TOWN &	NANCIA TONE OUTER 20 SOU COUNTR	Y MO 63017	Flight F.R. Ch	Number : Recorder: anged :	1,325.50 .00	LYNN ed
	OD HEFEREN	DELIVERED		99 5/1		PED		. O'Keeffe		Jeffrey B.	
LN NO.	ITEM NUMBER	ITEM DESCRIPTION	ITEM REFERE	L,	QUANTITY	PRIGE PER	Quantity	List/UOM	Discoun		
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	3117924-01 3022983 X 3007422	Labor Totals  Parts Section: T5 HARNNESS  THERMOCOUPLE PACKING	80015020 80015020		Each Each Each		1.00 1.00 1.00	1428.57 235.71 280.00	NET	235.7 280.0	235.7
	3027628 X		80015020 80015020		Each		1.00	1685.71		1685.7	1
	10	Parts Totals  Freight Section: S/H VANES/BLADES/BUSBLE Freight Totals Operation 0009 Totals  TURBINE SERVICES		-379							3451.4 69.0 69.0 <b>3520.4</b>

The Aviation Professionals

AIR SE	RVILE	(954) 491-3170 • F	-AX (954) 7	771-0281							WORK ORDER:	80/30763
er i de la companya d	TURBINE S	SERVICES		FAA	Cert	ified Re	pair S	tation WD4R6	518M	PAGE NUM	MBER	6
									Ī	DOCUMEN	IT NUMBER	351229
									-	DATE		6/29/99
T 0	5466 JODA FINA DAVID STO 14323 S O SUITE 120 TOWN & CO	OUTER 40 ROAD SOUTH DUNTRY MO 63017	•		S H I P T O	SUITE 1 TOWN &	NANCIA TONE OUTER 20 SOU COUNTR	40 ROAD TH Y MO 63017	Flight F.R. Cl A/C To	Number Recorder hanged tal Time	: 1,325.50	LYNN
COD REFER	ENCE NUMBER	SHIP VIA  DELIVERED	ORDER NO	O. ORDERED F			PPED		neprésentati D. O'Keeffe			
N		DELIVERED	l				PRICE			- <del>,</del>	Jeffrey B.	· · · · · · · · · · · · · · · · · · ·
O ITEM NUMBER		ITEM DESCRIPTION  JER SECTION T-5		ITEM REFERENC	DE O. S	QUANTITY A PER	PER	Quantity	List/UOM	Discour	nt Sell/UOM	Extende
PROBE DOES SPACED INC P/N 3040110	ORRECTLY. O S/N NR128 Labor	SYSTEM. FOUND ID. BUSBAR BROK INSTALLED BUSBA 114. Totals Section:	HARNESS EN. ALL R P/N 30	SHUKIEU AND PROBES ARE 124120 S/N 4	SAFET B70 AN	TED AND ID HARNE	DPLE SS					.0
3024120	X	BUSBAR S/N: 8F104		80015080-	379	Each		1.00	1685.71	L NET	1685.71	1685.7
3117924-01		T5 HARNESS	1	80015020-	270	Each		1.00	1428.57	7 12.5	1250.00	1250.0
3007422		PACKING		80015020-		Each		1.00	280.00	NET	280.00	280.00
	Freigh	Totals it Section:							**	,		3215.7
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REPAIR.	Labor	Totals				'			•			.00

The Aviation Professionals

AIH	SEH	VILE	(954) 491-3170 • F	AX (954)	771-0281							1	ORK ORDER:	80/30763
		TURBINE S	ERVICES		FAA	Cer	tif	ied Re	pair S	tation WD4R6	18M P	AGE NUME	BER	7
												OCUMENT	NUMBER	351229
i .											C	ATE		6/29/99
	B I L I	5466 JODA FINA DAVID STO 14323 S O SUITE 120 TOWN & CO	UTER 40 ROAD ** SOUTH UNTRY MO 63017	•		  - 	P D 1 T S D T	AVID S 4323 S UITE 1 OWN &	NANCIA TONE OUTER 20 SOU COUNTR	V MO 62017	Flight F.R. Ch	Number : Recorder: anged :	1,325.50	LYNN
TERMS COD	REFEREN	CE NUMBER	SHIP VIA  DELIVERED		NO. ORDERED F	<del></del>		D SHIP	PED		REPRÉSEMMATIV . O'Keeffe		Jeffrey B.	
LN		]	DELIVERED	30	,l			QUANTITY	PRICE	Quantity	List/UOM	Discount		+
NO ITEM	NUMBER		ITEM DESCRIPTION		ITEM REFERENC	CE O.	X X	PER	PER	quantity	LIST/UUM	Discount	3611/00m	Extended
302377	1		Section: COOLING RING Totals		80015000-3	379		Each	was .	1.00	1121.42	NET	1121.42	1121.4
		REPAIR	e Service Sectio COMBUSTION LINE e Service Totals	R SN22	41 80015000-3	179	,.			- 2	1560.00	NET.	1560.00	1560.0 1560.0
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12 SEND	LEFT HAN	TURBI	NE SERVICES Housing out for	REPAI	R		-	<u>.</u> !						
SENT REPA	LEFT HAN	D SHROUD IVED SAM Labor	HOUSING P/N 302 E P/N AND S/N AF Totals	20259 S	N UNKNOWN TO	) TUI	RBI	VE WELI	FOR					.00
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		Freigh SHIP/H	t Section: ANDLE HOUSING (I	N/OUT)	80015000-3	379								74.0

The Aviation Professionals

Each

Each

402

80015030-379

80015030-379

**NOZZLE GASKET** 

SHIP THANDLE NOZZLE TIPS IN/OUT 80015040-379

Continued on Next Page

SHEATH

Parts Totals

Freight Section:

S/N: N/S/N

3029678

3024126

X

The Aviation Professionals

14.00

1.00

12.02

131.42

NET

NET

12.02

131.42

168.28

131.42

828.32

23.50



#### 1575 West Commercial Blvd. Fort Lauderdale Executive Airport Florida 33309 (954) 491-3170 • FAX (954) 771-0281

**WORK ORDER INVOICE** 

WORK ORDER: 80/30763

PAGE NUMBER **DOCUMENT NUMBER** 351229 DATE 6/29/99

: N338AS

#### TURBINE SERVICES

FAA Certified Repair Station WD4R618M

TO & T-5 CALIBRATION/SPLIT ENGINES FOR EVAL

. . . . . 5466 JODA FINANCIAL GROUP DAVID STONE 14323 S OUTER 40 ROAD SUITE 120 SOUTH TOWN & COUNTRY MO 63017

5466 I JODA FINANCIAL GROUP P DAVID STONE 14323 S OUTER 40 ROAD T SUITE 120 SOUTH

O TOWN & COUNTRY MO 63017

Unit : N338AS : KING AIR Make Mode 1 : B90 Serial Number : LJ493 Flight Recorder: 1,325.50 F.R. Changed : .00 A/C Total Time : 1,325.50

Registration

LYNN

CUSTOMER REPRESENTATIVE 1,325.50 TERMS REFERENCE NUMBER SHIP VIA ORDER NO. ORDERED REQUESTED SHIPPED 5/06/99 5/10/99 COD DELIVERED 30763 Michael D. O'Keeffe Jeffrey B. Grothe

ИО ГИ	ITEM NUMBER	ITEM DESCRIPTION	ITEM REFERENCE	В. О.	T A X	OUANTITY PER	PRICE	Quantity	List/UOM	Discoun	t Sell/UOM	Extended
		Freight Totals Operation 0013 Totals: TURBINE SERVICES AND PRESSURE CHECK RIGHT HAND F										23.50 <b>1431.8</b> 2
	REASSEMBLED TIPS P/N 277	NOZZLES. FOUND 7 TIPS STREAKI AND FUNCTIONALLY CHECKED. FOUN DO-1. PRESSURE AND FUNCTIONALL ITNEY MAINTENANCE MANUAL P/N 30 Labor Totals	D 7 TIPS STREAM Y CHECKED IN AM	ΚΙŅ	۱Ġ.	REPLA	CED 7	10.00	58.00	NET	58.00	580.00
	27700-1 C 27700-1 X M83248-1-904 AS3209-010 3029678	Parts Section: NOZZLE TIP  FUEL NOZZLE TIP - EXCH  O-RING (SAME AS MS9387  O-RING  NOZZLE GASKET  Parts Totals  Freight Section: SHIP/HANDLE ON SHEATH/GASKET Freight Totals  Operation 0014 Totals:	80015040-379 -04) 402 402 80015030-379			Each Each Each Each		7.00- 7.00 2.00 7.00 14.00		NET NET NET NET	.00 65.57 .39 .29 12.02	.00 458.99 .78 2.03 168.28 630.08

Continued on Next Page.

The Aviation Professionals

TURBINE SERVICES

1575 West Commercial Blvd. Fort Lauderdale Executive Airport Florida 33309

(954) 491-3170 • FAX (954) 771-0281

Continued on Next Page

FAA Certified Repair Station WD4R618M

WORK ORDER INVOICE

WORK ORDER: 80/30763

6/29/99

LYNN

PAGE NUMBER 10

DOCUMENT NUMBER 351229

DATE 6/29/09

TQ & T-5 CALIBRATION/SPLIT ENGINES FOR EVAL

Registration : N338AS Unit : N338AS 5466 5466 Make : KING AIR JODA FINANCIAL GROUP JODA FINANCIAL GROUP Mode1 : B90 DAVID STONE P DAVID STONE Serial Number : LJ493 14323 S OUTER 40 ROAD 14323 S OUTER 40 ROAD Flight Recorder: 1,325.50 T SUITE 120 SOUTH SUITE 120 SOUTH F.R. Changed : .00

O TOWN & COUNTRY MO 63017 ORDER NO. ORDERED REQUESTED SHIPPED CUSTOMER REPRESENDENCE NUMBER SHIP VIA ORDER NO. ORDERED REQUESTED SHIPPED CUSTOMER REPRESENDENCE NO. ORDER NO. ORDER NO. ORDERED REQUESTED SHIPPED CUSTOMER REPRESENDENCE NO. ORDER NO.

TERMS SHIP VIA ORDER NO. ORDERED REQUESTED SHIPPED 30763 5/06/99 5/10/99 COD DELIVERED Michael D. O'Keeffe Jeffrey B. Grothe QUANTITY **Ouantity** List/UOM Discount Sell/UOM Extended ITEM NUMBER ITEM DESCRIPTION ITEM REFERENCE. TURBINE SERVICES REINSTALL POWER SECTIONS AFTER REPAIR SEE ITEM #2. Labor Totals .00 Parts Section: T024979 SEAL RING PMA Each 2.00 1114.28 1114.28 2228.56 80015020-379 Parts Totals 2228.56 Operation 0015 Totals: 2228.56 TURBINE SERVICES SPLIT BOTH ENGINES AFTER RUN IN. RESPLIT LEFT HAND AND RIGHT HAND ENGINES AFTER BREAK-IN RUNS FOR REMOVED CT DISKS. REBALANCED LEFT HAND CT DISK. REINSTALLED EVALUATION. DISK AND BOTH POWER SECTIONS. Labor Totals 1500.00 Parts Section: OIL, EXXON 2380 Quart 4.00 9.40 NET 9.40 37.60 Parts Totals 37.60 Operation 0016 Totals: 1537.60 COMPLY WITH PERFORMANCE RUN FOR TROUBLESHOOTING RIGHT HAND ENGINE. PERFORMED ENGINE PERFORMANCE RUN. FOUND RIGHT HAND ENGINE NOT MAKING



#### 1575 West Commercial Blvd. Fort Lauderdale Executive Airport Florida 33309

(954) 491-3170 • FAX (954) 771-0281

WORK ORDER INVOICE

LYNN

WORK ORDER: 80/30763

PAGE NUMBER 11 DOCUMENT NUMBER 351229 DATE 6/29/99

#### TURBINE SERVICES

TOWN & COUNTRY MO 63017

FAA Certified Repair Station WD4R618M

TO & T-5 CALIBRATION/SPLLT ENGINES FOR EVAL

Registration : N338AS Unit : N338AS : KING AIR 5466 5466 Make JODA FINANCIAL GROUP I JODA FINANCIAL GROUP Model : B90 Serial Number : LJ493
Flight Recorder: 1,325.50
F.R. Changed : .00
A/C Total Time : 1,325.50 P DAVID STONE DAVID STONE 14323 S OUTER 40 ROAD T SUITE 120 SOUTH O TOWN & COUNTRY MO 63017 14323 S OUTER 40 ROAD SUITE 120 SOUTH

CUSTOMER REPRESENTATIVE CKd-By -:- Not-Required TERMS REFERENCE NUMBER SHIP VIA ORDER NO. ORDERED REQUESTED SHIPPED 5/06/99 5/10/99 COD DELIVERED 30763 Michael D. O'Keeffe Jeffrey R. Grothe

COD		DELIVERED	30/03	2/00/99	3/16	פעקו		michaei	D. U Keette		Jettrey B. G	rotne
N 10. 11	TEM NUMBER	ITEM DESCRIPTION	ITE	M REFERENCE	B. T O. X	QUANTITY PER	PRICE PER	Quantity	List/UOM	Discount	Sell/UOM	Extended
P	OWER . SEE	ITEM #20. Operation 0017 Totals	:									.00
		TURBINE SERVICES EFT AND RIGHT BLEED VAL	VE.					,				
B	ENCH TESTED TAPHRAGM NOT	LEFT HAND AND RIGHT HAN ED. RIGHT HAND BLEED V Labor Totals <b>Operation 0018 Totals</b>	ALVE NEEDS	LVES. NO L OVERHAUL.	SEE.	G FROM ITEM #	19.					.00
		TURBINE SERVICES VALVE P/N 3020049 S/N 0	77 AND SEN	D TO UTC FO	R OVE	RHAUL.	** 2	* * .		,		
A	CCORDANCE WI	ENT TO UTC. REINSTALLED TH PRATT & WHITNEY MAIN T THIS TIME. Labor Totals	TENANCE MA	VE P/N 3020 NUAL P/N 30	049 S 15442	/N 077 Hour		3.50	58.00	NET	58.00	203.00
		Operation 0019 Totals	:									203.0
		TURBINE SERVICES HAND ENGINE AND SEND T	O UTC FOR	RESHIM AND	ł I	CELL R	UN.				entern in the second of the se	
C	OMPONENTS. MAINTENANCE M	ENT TO UTC. RECEIVED R INSTALLED ON AIRCRAFT I ANUAL. PERFORMED LEAK	N ACCORDAN	CE WITH PRA	[T]&	WHITNE						
A	T THIS TIME.	Labor Totals										1500.00
		Parts Section:									}	



REFERENCE NUMBER

TERMS

1575 West Commercial Blvd. Fort Lauderdale Executive Airport Florida 33309 (954) 491-3170 • FAX (954) 771-0281

WORK ORDER INVOICE

6/29/99

LYNN

WORK ORDER: 80/30763

PAGE NUMBER 12 DOCUMENT NUMBER 351229

FAA Certified Repair Station WD4R618M

TO & T-5 CALIBRATION/SPLIT ENGINES FOR EVAL

5466 JODA FINANCIAL GROUP DAVID STONE 14323 S OUTER 40 ROAD SUITE 120 SOUTH TOWN & COUNTRY MO 63017

TURBINE SERVICES

Registration : N338AS Unit : N338AS 5466 Make : KING AIR JODA FINANCIAL GROUP Mode1 : B90 DAVID STONE Serial Number : LJ493 14323 S OUTER 40 ROAD Flight Recorder: 1,325,50 T SUITE 120 SOUTH F.R. Changed: O TOWN & COUNTRY MO 63017 A/C Total Time : 1,325.50

DATE

CUSTOMER REPRESENTATIVE CKd-By - Not-Required SHIP VIA ORDER NO. ORDERED REQUESTED SHIPPED 5/06/99 5/10/99 DELIVERED 30763 Michael D. O'Keeffe COD Jeffrey B. Grothe ITEM REFERENCE O. QUANTITY PRICE Quantity List/UOM Discount Se11/UOM Extended ITEM NUMBER ITEM DESCRIPTION PER 2380 OIL, EXXON 0uart 12.00 9.40 NET 9.40 112.80 ATOCK-379 T-SOLV CLEAR DEGREASER Each 2.00 7.95 NET) 7.95 15.9d 379-STOCK Parts Totals 128.7d Operation 0020 Totals: 1628.70 = TURBINE SERVICES CORE/CHARGE CREDIT Operation 0998 Totals: .00 THE ITEM IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FAA REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS AGENCY UNDER THIS WORK ORDER. THIS WORK ORDER IS PART OF THE PERMANENT AIRCRAFT RECORD. AUTH. SIGNATURE: DATE: 6 BANYAN AIR SERVICE FAA APPROVED REPAIR STATION WD4R618M Parts Section: Each 35.00 .45 M83248-1-010 O-RING NET .45 15.75 170 Parts Totals 15.75 Operation 0999 Totals: 15.75 Continued on Next Page



# 1575 West Commercial Blvd. Fort Lauderdale Executive Airport Florida 33309 (954) 491-3170 • FAX (954) 771-0281

#### WORK ORDER INVOICE

WORK ORDER: 80/30763

LYNN

PAGE NUMBER 13
DOCUMENT NUMBER 351229
DATE 6/29/99

#### TURBINE SERVICES

FAA Certified Repair Station WD4R618M

TO & T-5 CALIBRATION/SPLIT ENGINES FOR EVAL

			Registration	: N338AS
B		S	Unit	: N338AS
I	5466	H 5466	Make	: KING AIR
L	JODA FINANCIAL GROUP	I JODA FINANCIAL GROUP	Mode1	: B90
L	DAVID STONE	P DAVID STONE	Serial Number	: LJ493
	14323 S OUTER 40 ROAD	14323 S OUTER 40 ROAD	Flight Records	er: 1.325.50

T SUITE 120 SOUTH T SUITE 120 SOUTH T SUITE 120 SOUTH F.R. Changed : .00

O TOWN & COUNTRY MO 63017 A/C Total Time : 1,325.50

TERMS REFERENCE NUMBER SHIP VIA ORDER NO. ORDERED REQUESTED SHIPPED CUSTOMER REPRESENTATIVE REQUIRED.

C	OD	DELIVERED	30763 5/06/99	) 5	5/1	10/99		Michael	D. O'Keeffe	1	Jeffrey B. G	rothe
NO LN	ITEM NUMBER	ITEM DESCRIPTION	ITEM REFERENC	E C	3 3	QUANTITY PER	PRICE PER	Quantity	List/UOM	Discou	nt Sell/UOM	Extended
						TURBINE	SERV	ICES	Tota	1:		73,888.2
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AIR SER	VICE				Crew Lead	er. Jehr
•					Date:	5/6
Owner	ida tinan	ral	Make & Model	<u>B90</u>	F	Reg # <u>N338A</u>
Hobbs/Tach Tir	ne <u>1325.5</u>	WO#_	30763	S/N	W4	93
Arrival Date	56	Departu		I Darces	Keys _	
Log Books		Phone _	frank Robin Lon Star	Barrys	Terms	COD
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2			s and remove	4 CT a	lisks fo	r Settens37
ACTION CONTAKEN SOME	et lett on	& Porce		isks be	- flanz r eval	estion
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						MW
HEM	remotive He	SI comp	muts from	RIHE	inginit	
ACTION PONI TAKEN PONI MANUAL	over R/# e		Lepan /	-16 11	Nepan 7020-	MAINT.
	-	Ĺ				AND AND

"THE AVIATION PROFESSIONALS"



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WORK REQUISITION DISCREP	ANCY SHEET MECH INSP
1 -	assemble, machine 44 Inner exit
DISEDENTISES NEW ORLES, REASON ACTION VANOS + SEGMENTS MACH	nes to 18 of 8.574 to
OPS APC Tech. disassembly nework, m	eassemble, machine RIH IDNET RESERVED THE
ACTION Vanes + Segments and r	nachined to 10 of 8.5741
OPS APC Tech. deblade, reblade, frue	and balance LIH CT disk go
ACTION BIADED NEW DISTAKEN TO 8.550 (ST.	£ 8/30)
OPS APC Tech. albade, reblade, the o	ind balance RIH CT disk
ACTION TAKEN 58 NOW Blades True	d + Balanced to 8.50
OPS APC Tecn. No. No. No. No. No. No. No. No. No. No	1 2
TESTES TO SISTEM FOUND 4H A ACTION ALL Drobes ARE SAFTIED + SPACE TAKEN 3040110 SIN NRICOIS MIS BUSBAR PIN REMOVED CITY NEST	CED INCORRECTLY. INSTALLED FAMILIES AND 3024120 SW 8FIOH MAD SHOTED AS NEO. AND SHOTED AS NEO. AND
OPS APC Tech. repair RIH power Sec	tion T-5 system
TAKEN Suffed I SpacED INCOLLECTLY I	unos stroles and proces are susmuel Broken and proces are proces are process are process are process are process are process and purple process all outes preshing federal
	in liner out for repair
ACTIONIVELY for Repair peciciles TAKEN	Same p/N /SN defts
"The Aviation	Professionals"



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Workorder No.:	

DISCREPANCY SHEET	mech insp
OPS APC Tech. Send LIH Should housing out for repair	
ACTION for pepain TAKEN  Peccent Some P/N + S/N ifter repain	insina Wa
OPS APC Tech. Clean, flow and PSI check LIH fuel notice.	ZY/#
ACTION checked found 8 Tip Still Streeting TEPIACED 8 TIPS PROSE TAKEN FUNCTIONALLY Checked LAW FW MANTANCE MANNING PORTS.  DOZZE PN Z7200-1 REPLACEDISHEATH PN 3024126	EURO AND
No. No. 100 Clean, flow and PSI Chark RIH fuel nozile	2 CS
ACTION Functionely Checked Found 7 tips Streaming Disassembled Cleanded ACTION Functionally Checked Found 7 tip Streaming, REPLACED TIPS TAKEN PRESENTE AND FUNCTIONALLY CHECKED IAW PLW MAINTANCE 30152142	PN ZZZO-1
OPS APC Tech. No. No. Reinstall fower Sections after Repair	
ACTION — SEE ITEM 2 —	
OPS APC Tech. No. No. Split Engine after Run In	
ACTION RESplit LA and R/H engo after Break TAKEN per evaluation asmoved of Disks Rebald LA CT DISK. Rejustable of Disk and Both PWN Sec	in Ryns mad Tions.
OPS APC Tecn. C/W Englishman a Rem. Son	MAR
ACTION PERSONNEL ENG. PERSONNER Run bound TAKEN ENG NOT MAKING POWER. SE ITEM 20	12/4) 
OPS APC Tech. No. No. Bench chech Left + Right Bleed Value	The App
ACTION BONCh FOOLS 2/H and P/H Blood walker TAKEN BONCH FOOLS 2/H and P/H Blood Walker	eed value
Meds overhand see The Aviation Professionals"	



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Norkorder No.:	

		/ MC	DISCREPANCY SHEET	MEC	H INSP
OPS No ACTI TAKE	No.	200	Remove Bled value P/N 3020049 5/N and Send TO UTC For overhaul + Removed Sent to UTC Remotable BLEEDVA ROZO049 5/N 077 IAWPEW MANOTANCE MANUAL PN 301 Checks good AT THIS TIME.	07 C	
OPS	APC No.		permote RIH eng and And to ord	Pensh	
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OPS A	APC No.	Tech.			
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PCE-	2080	i P	T6A-20	3		
DATE 99 191	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)	DATE	RECORDING TACH TIME
6-25	1325.5		24,874.	2 S.M.O. 11. 2726.2 S.H.S.T. 547.7 CSH		
	59,927	CSO	423	5. COMPLIED WITH TORQUE AND TS CALIBRATION		
	PERFORI	LED T	E FOL	LOWING REPAIRS ON THE HOT SECTION: INSTALLED		
	REPAIR	O C.	. SHR	OUD HOUSING PIN 3020259 INSTALLED REPAIRED		
	Inner	EXI.	- DUCT	- ASSEMBLY PIN 3018490 (4 OVERHAULED C.T. VANGS		
	PH TOI	9551,	13 EAC	H SEGMENTS PIN TODO 485 AND I EACH SEGMENT PIN		
<del></del>	T0204	84)	THSTAL	LED REPAIRED C.T. DISK ASSEMBLY (NEW DISK		
Specific has Millionide to company or to	PM 30	13511	S/H 4	DB 463 WITH HEW (58) TUPBINE BLADES PIN		
	T023	401	AND TR	LED AND BALANCED INSTALLED CLEANED AND FLOW		
	CHECK	ED PL	EL NO	22LES (1EACH 3010149 AND 13 EACH 3010145) INST-		
-	ALLED	BENI	IH CHE	CKED BLEED VALUE PH 3027219 SH 10107 INST-		
	ALLED	NEW	T5 1	JARKESS PLA 3010110 SIN HR 12813 AND OVERHAULED TS		
	THERM	COUPL	BUS	BAR PH 3024120 SH W. D. 30263   ON FILE		
	8F104	INST	1	NEW SEALING RING PH !		
المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم	30249	2908	- RAH	ENGINE AND CHECKED BANYAN AIR SERVICE		
	FOR L	BAKS	ANO	PERFORMANCE. OPS 1575 W. Commercial Blvd.		
	CHECKE	0 60	do. Eno	Pt. Lauderdale, FL 33309		
	<u> </u>			FAA CR3 WD4R818M PH. 954-491-3170		

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<u> </u>	E- 2-2-	0.08	PTGA-	20			
DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)	DATE	RECORDING TACH TIME	TODAYS FLIGHT
6-25	1325.5		32,416.9	S.M.O.H. 3113.9, S.H.S.T 617.7, C.S.N.			
: 	54,082			358, COMPLIED WITH TORQUE AND TE CALIBRATION			
	PERFOR	Men T	HE FO	LLOWING REPAIRS ON THE HOT SECTION: INSTALLED'			
	OVERHA	uleo	COMBU	STION LIHER PIN 3023774 SIN 2241 INSTALLED			
<del></del>	REPAIR	ED I	HHER	EXIT DUCT ASSEMBLY P/11 3018190 ( 15 OUTHAULED			
	C.T. U		OT HI9	19551, 13 ENCH SEGMENTS P/H TODOARS AND I EACH			
	SEC MEN	TPH	T0204	84) INSTALLED REPAIRED C.T. DISK ASSEMBLYAH			
20714	COVER	NYLET	DISK	PM 3013511 WITH TOTAL TIME 5019 AND TOTAL			
	CYCLE	\$ 52	87 AMO	NEW TURBINE BLADES PIN TOO-3401 (58 EACH)			
	ANO T	1	DHO B	NLANCED INSTALLED OVERHAULED BLEED VALUE PIN			
	30200	149 s	N A 20	24, CLEAMED AND FLOW CHECKED FUEL NOZZLES			
****	IEACH	PIN 3	00149	AND 13 EACH 30/0/15 INSTALLED NEW T5 HAR-			
,	MESS	P/H 30	10110	SIN NR 12814, INSTALLÉD O VERHAULED THERMO-			
	COUPL	E BU	5 BAR	9/H 3024 120 S/H W. O. 3076 P ON FILE			
,	1870,	INST	ALLED 1	LEW SEALING PINK P/H			
****	30240	179 RR	. RAH	ENCINE AND CHECKED BANYAN AIR SERVICE			ļ
		PUKS	AHD				
	Icheck	en (	<u> 1000 . e</u>				<u> </u>
				FNA CR8 WD4R818M PH. 954-491-3170			

### 1. THE AGES GROUP, L.P. - PART OR MATERIAL CERTIFICATION FORM

ATA
Specifications 106

2. Seller's Name The AGES Group, L.P.

Reference #

87XJ7912

4. Organization:



THE AGES GROUP 645 Park of Commerce Way Boca Raton, FL 33487 Phone #:

(561) 998-9330

Fax#!

(561) 998-9714

SITA/Wire Code FLLGDXD

Status

Parts Surplus Supplier



5a. Seller's Contract # 5b. Buyer's Contract # 228 50508290 6. Item 7. Description 8. Manufacturer & Part # 9. Eligibility 10. Qty 11. Serial/Batch 12. Status DISK 3013511 1 P&W VARIOUS 40B463 NEW

THE ABOVE REFERENCE MATERIAL WAS NOT OBTAINED FROM ANY GOVERNMENT OR MILITARY SOURCE, AND WAS NOT INVOLVED IN ANY AIRCRAFT ACCIDENT, FIRE OR CRASH

13a. Remarks

13b. Obtained From 145- UNC ENGINE & ENGINE PAI	RTS, INC.	13c. Last Certified Agency N/A				
14. New Parts/Material Certificat: The following signature attests that identified above was (were) manufa Production Approval Holder (PMA) commercial standard	the part(s) or material(s) actured by an FAA	18. Used. Repaired or Overhauled Parts Certification The following signature attests the documentation specified above and attached is accurate with regard to the item(s) described.				
15. Signature $\beta \beta$	For The AGES Group Quality Assurance	19. Signature	For The AGES Group Quality Assurance			
16. Name	17. Date 5-21-99	20. Name	21. Date			

NOTICE: The above signature binds the signer and the SELLER to the accuracy of the information provided in the FORM. Should the information provided in this Form contain inaccuracies or misrepresentations, the signer and the seller may be liable for damages and are subject to criminal prosecution under state and federal law.

AQA005 REV 0 5/1/98

## BANYAN AIR SERVICES, INC.

	TD 67.776				,		IN		
I. UNII	TED STATES	2. FAA F	ORM 813	0-3	3. S	ystem Tracking	Ref. No.		
		U.S. Departme	ESS APPROVAL ent of Transporta tion Adminstrati	tion		30763	,		
4. Organ	<b>4</b>	Vir Service			5.Wor	rk Order, Contract,	Invoice Number		
		Commercial Blvd.							
		erdale, FL 33309				30763			
C T1		3170 Fax (954) 491-161		•					
6. Item	7. Description	8.Part Number	9. Eligiblity *	10. Quant	itv	11.Seriai/Batch Number	12. Status/Work		
1.	CT DISK ASSY	3013511	PT6-20			HQB443			
AND	Bladed New DISK P/N 3013511 SIN 40B463 WITH 58 CT BLADES NEW COND P/N-T023401. TRUED AND BALANCED TO O.D. 8.550 1/A/W PT6-20 MANOT MANUAL. P/N 3015442,								
Limited life	parts must be accompanied	by maintenance history inc	luding total time't	otal cyc	les/tim	e since new. 🔿 .	- 0		
14. New Newly	Overhauled N.	/A	19. Return to	Service	in Acc	cordance with FAR	43.9		
n accordanc	it the new or newly overhau herwise specified in block I se with FAA approved design ase of parts to be exported,	Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.							
he importin	g country have been met.		,						
.5. Signan	N/A	16. FAA Authorization No. N/A	20. Authoriza	ed Sign	ature:	21	Cartificate No. WD4R618M		
7. Name (	Typed or Printed):	18. Date:	122 Jame Type	ed or P	inted)	173	. Date:		
	· . · pam or i / maaj.	10. 24.0.		<i> </i>	<u> </u>		. / /		
	N/A	N/A					0/4/95		
AA Form	3130-3 (11-93)		* (Ontional) Installer			e eligibility with applica	able technical data.		

UNITED STATES

FAA Form 8130-3 (1) 931

## FAA FORM 8130-3

AIRWORTHINESS APPROVAL TAG

U.S. Department of Transportation Federal Aviation Administration

3 System Tracking Rut No.

99-0101

110 (ONIO MEADON) FOAD TVORYTON) CT 06443. PD 812NE-D  6 Nem   Description   B Part Number   9 Eligibility*   10 Quantity   11 Serial/Batch Number   12 Status/Work    OI TURBO   TO23401   21,25,25A,110, 58   N/A   NEW    BKT BEVK"   112,	4. Organizat	ion TUA	BO ADDUCIS	A DIVICION OF	F CONCUS	TERS INK	5. Work Order, Contract, or Invoice Number:
6 ttem 7 Description 8 Part Number 9 Eligibility* 10 Quantity 11 Serial/Batch Number 12 Status/Work  OI TURBO TO23401 11AG 20 20 A 20 B 21, 25, 25 A, 110, 112, 112,	110	POND MEADON FOA	O IVORYTON C	T 06442 F	OR 812NE	-0	
BKT BEV'K" 112,	6 liem	7	8. Part Number	9. Eligibility *	Quantity	11. Serial/Batch Numl	ber Status/Work
13 Remarks		BKT BEV'K"	To23401	1 ' '	58	N/A	NEW

AIRWORTHINESS APPROVAL-PARTS THIS FORM IS NOT AN EXPORT APPROVAL Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new. 14 New Return to Service in Accordance, with FAR 43.9 Newly Overhauled Certifies that the work specified in block 13 (or attached) above was carried Certifies that the new or newly overhauled part(s) identified above, except out in accordance with FAA airworthiness regulations and in respect to the as otherwise specified in block 13 was (were) manufactured in accordance work performed the part(s) is (are) approved for return to service with FAA approved design data and airworthiness NOTE: In case of parts to be exported, the special regirements of the importing country have been met 21. Certificate Number: 15\_Signature 16 FAA Authorization No. 20 Authorized Signature NE 84182474 NE 841076 22 Name (Typed or Printed) 23. Dale: 17 Name (Typed or Printed) 4.23.99 LSTHROP

(Optional) Installer must cross check eligibility with applicable technical data

LEFT

### **PARTIAL REPAIR**

30763/

FAA CERT. #WF5R299N CUSTOMER PART NAME CT Shoul Hours S/N 3020259 NA 80015070

Remarks

Inspector

Only the work requested by the customer and described in the job order referenced on the face of this tag has been performed, inspected and accepted to repair methods in accordance with F.A.A. Approved procedures. The customer must perform further inspection of the part(s) before use to determine serviceability.

W/0 NO. \_

Signed for Turbine Weld Inc.

						<b>271</b> 703			
T. UNITED STATES	2.	F	AA FORI RWORTHINESS . U.S. Department o	Transportation	3. System Trackin	ng Ref. No.			
	Federal Aviation Administration								
4. Organization	7111	CBO PRODUCT	CA DIVICIO	N OF QUICUS	STERS INK	5. Work Order, Co	ontract, or Invoice Number:		
110 POND MEADEN		O IVORYTON)	CT 06442	PQ 812N		4019951	(4-7467-7)		
6. Item 7. Description		8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Nun	nber 12.	Status/Work		
RING SEGM	ENT		PTGA-66A						
OI CL 7	•	T020484	20 20A 20	BBR	NA		NEW		
13. Remarks									
	AIRWORTHINESS APPROVAL-PARTS THIS FORM IS NOT AN EXPORT APPROVAL								
Limited Ilfe parts must be ac	compani	ed by maintenance his	tory including total time	/total cycles/time sinc	ө пөж.				
Newly Overhauled Control Certifies that the new or newly overhauled part(s) Identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness.				Return to Service In Accordance with FAR 43.9  Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.					
NOTE: In case of parts to be exported, the special regirements of the importing country have been met.				•					
15. Signature		2	16., FAA Authorization No.:	20. Authorized Signature:			21. Certificate Number:		
	276	LAZUN -	NE 841076	and the second state of th					
17. Name (Typed or Prinled):			18. Date:	22. Name (Typed or Print	ed)		23. Date:		
DAVID I LO	THROP	o	3/8/99						

### BANYAN AIR SERVICES, INC.

1. UNIT	ED STATES	2. FAA FO	ORM 8130-	.3 3. S	ystem Tracking l	Ref. No.	
		AIRWORTHINE	SS APPROVAL TA	AG	207/7		
			it of Transportation	n	30763		
			on Adminstration		······································		
4. Organ		Air Service		5.Wo	rk Order, Contract,	Invoice Number	
		Commercial Blvd. erdale, FL 33309			30763		
		-3170 Fax (954) 491-1612			30103		
6. Item	7. Description	<del>,</del>	9. Eligiblity * 10	0.	11.Serial/Batch	12. Status/Work	
			0	uantity	Number		
			1				
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C-em	STOTE NO		JAN 10			E2201181	
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	7.5	915792	. •				
Limited life	parts must be accompanies	d by maintenance history incl	uding total time/tota	l cycles/tin	ne since new.	·	
14.		ov maintenance majory me.	19.		ie since new.		
New		i/A	Return to Service in Accordance with FAR 43.9				
Newly	Overhauled						
Certifies th	at the new or newly overhau	uled part(s) identified above,	Certifies that the	work speci	fied in block 13 (or	attached) above	
except as of	therwise specified in block	13 was (were) manufactured	was carried out in	accordanc	e with FAA airword	hiness regulations	
in accordan	ce with FAA approved desi-	gn data and airworthiness.	,		eriormed the part(s)	is (are) approved	
NOTE: In:	rase of parts to be experted	, the special requirements of	for return to servi	ce.			
	ng country have been met.	, are special requirements of	,		1		
15. Signat	ure	16. FAA	20. Auchorizer	Sizyáture	2	1. Certificate No.	
		Authorization No.		1// ~	2// .	WD4R618M	
17 N	• N/A	N/A	22. Hame Typed	am Davis		3. Date:	
17. Name	(Typed or Printed):	18. Date:	22. graine (1 vpeg	or Frinced)	.  2	S. Date.	
	N/A	N/A	11 397	to ke	STHES (	6/4/99	
FAA Fort	n 8130-3 (11-93)		(Optional) Installer m	us: cross che	ck eligibility with applic	calific technical data	

1. UNITED	STATES	2.	FAA FORM 8130 AIRWORTHINESS APPROV US DEPARTMENT OF TRANSP FEDERAL AVIATION ADMINIS	I-3 AL TAG CRITATION			PACKING REF. NO. $90030$	
	NIZATION Airmotive, Inc	:., Regional Turbine	Shops • 1060 E. Northwest F	lighway Grape	evine, TX 76051	6. WORK ORDER, CONTR NUMBER:	ACT, OR INVOICE	
6. ITEM		7. DESCRIPTION	8. PART NO.	9, ELIGIBILITY	10. QTY,	11. SERIAL/BATCH NO.	12. STATUS/WORK	
	1	Sheath	3024126	_ GYEA ··	· 14/2m		Newly 1/4	
13.	REMARKS:	TT:	750: <i>O</i>	CSN:_		CSO:		
		oair Station under work orda	nr referenced in blocks 3 & 5. Inspec		ME/TOTAL CYCLES/	Date	AV 83 VA	
14.	NEW Y OVER	O CO		19. Return to Service in Accordance with FAR 43.9				
specified data and	f in block 13 was l airworthiness r in case of parts t	newly overhauled part(s) id s (were) manufactured in ac egulations.	enlified above, except as otherwise cordance with FAA approved design equirements of the importing country	Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.				
16. Signature: 16. FAA Authorization No:			20. Authorized Signature:  21. Certificat  YRR8491L			21. Certificate Number YRR8491L		
17. Name (typed or printed):  18. Date:				22. Name (typed or printed):  SRUCES. RICHARDSON 23. Date:  M. 29 YA				

# BANYAN AIR SERVICES, INC. 2/H

(13:5	I. UNITED STATES									
1. UNI	IED STATES	2. FAA I	FORM 8130	)-3   3	. System Tracking	Ref. No				
			ESS APPROVAL I							
		U.S. Departm	ent of Transportation	оп	7017	,				
		Federal Avi	ation Adminstration	<u>n</u>	30763	·				
4. Orga		Air Service		5.	Work Order, Contract	Invaice Number				
	13/3 W. (	Commercial Blvd.			,	,				
	FOR LAUG 1954) ±01	erdale, FL 33309			30763	7				
6. Item	7. Description	-3170 Fax (954) 491-16 8 Part Number								
		our are inditional		10. Duantity	11.Serial/Batch Number	12. Status/Work				
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		201011	11.6/1	1	· -	1				
	— ,		DTLA-20	13	NA	INSP				
2	FUEL MAINIFOLD	3010145	TEN CO	15	W 7					
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13. Remark										
	CLEA	ED, PRESSURE AND FL	JACTIONALLY CHE	ECKED II	NACCORDANCE					
		WITH THE PRATT & W								
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zenít (	Overhauled									
entifies that	the new or newly overhaul	ad nam(e) identified shows	C-ic	<b>.</b> .						
ಬಂದು	erwise specified in block 11	harmagineen (agest) 25%	uze remied and in	work spec	nified in block 13 (or a nce with FAA airworthi	nached) above				
1 accordance	with FAA approved design	data and airworthiness.	and in respect to the	be work :	performed the part(s) is	cless regulations				
			for comma to service	: <b>c.</b>	· · · · · · · · · · · · · · · · · · ·	, (ac) copto (cc				
io importina	se of parts to be exported, to country have been met.	pe abecial teriminance of								
5. Signatur		116 744	120 1 11 1 12	<del></del>	<del></del>					
- 3	•	16. F.A.A Authorization No.	20. Authorized S	Signatur	=: 21.	Cartificate No.				
	N/A	N/A				WD4R618M				
7. Name $\sigma$	voed or Printed):	18. Date:	12. James Front &	r Printea	0: 123	Date:				
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	N/A	N/A	11/30		POHE 5	118/99				
44 Form	8130-3 (11-93)		• (Optional) înstaller mus	st cross che	ck eligibility with applicat	ale technical data				

TINU	ED STATES		A	IRWORTHINESS A U.S. Department of Federal Aviation A	1 Transportation	99-0089			
4. Organizati	ion	TURB	O PRODUCT	IS A DIVICIO	N OF CONCOS	STERS ITAL	5 Work Order, Cor	tract, or Invoice Number;	
110	POND MEADOW	POAD	TVORYTOA)	CT 06442	PQ 812N	16 - 0 T	402053	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
6. Item	7 Description	B.	Part Number	9 Eligibility	10 Quantity	11. Serial/Batch Num	112		
01	0.10		020485	PIBA-667 20 20A 201	t t	N/A		NEW	
13. Remarks			armining and the second of the	مين المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة ال المنظمة المنظمة					
	AIRWONTHINESS APPROVAL-PARTS THIS FORM IS NOT AN EXPORT APPROVAL								
14.	×	отрапіва ц	y maintenance his	tory including total time	e/lotal cycles/time sind	ce new.			
New	ly Overhauled	,			Return to Servi	ice in Accordance wit	h FAR 43.9		
Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness.					Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.				
NOTE: In case of parts to be exported, the special regirements of the importing country have been met.									
15. Signature 16 FAA Authorization No					20 Authorized Signature		- Aller	21. Certificate Number:	
	(Typed or Printed)			NE 841076 18. Date 4/13/99	22 Name (Typed or Prin	sted)		23 Dale	
<i>Di</i>	AVID I LAT	HROP		7/1/2017	}			`	

3 System Tracking Ret No

I. UNI	TED STATES	2. <b>F</b>	AA FORI AIRWORTHINESS U.S. Department of Federal Aviation		3. System Tracking Ref. No. S.O. 000387 - 02			
4. Organiza	Won Semco Instrument	s . Inc. 25702 Rve (	Canyon Road Valenc	ota Calif 913	45	1	Order, Contract, or Invoice Number:	
6.	T 7.	18	1 a	I 10	111		12	
ltem	Description	Part Number	Eligibility *	70. Quantity	Serial/Batch Nu	ımber	Status/Work	
00 l	THERMOCOUPLE B	US 3024120 AR	VARTOUS	1	sn 4870		OVERHAULED	
13. Remark	(\$	The second secon						
S	ee attached Analy	sis/Teardown Report						
F	teference Procedm	ra RPeanallan						
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Limited	I Illa parts must be acco	ompanied by maintenance his	story including total time	viotal cycles/time sind	e new			
14. Nev				19.	7			
	vly Overhauled			Return to Servi	ce in Accordance w	ith FAR	43.9	
Certifie as othe	s that the new or new	ely overhauled part(s) identifick 13 was (were) manufactur la and airworthiness.	•	Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.				
	In case of parts to be ex have been met.	xported, the special regirements	nts of the Importing		e y			
15. Signa		and the second s	16. FAA Authorization No.:	20. Authorized Signature:			21. Certificate Number:	
				Par S	1 A		XEMR401L	
17. Name	(Typed or Printed):		18. Date:	22. Name (Typed or Print	ed)		23. Date:	
			١.	libert.	Cremant		7.23-99	

FAA Form 8130-3 (11-93)

\* (Onlineal) Installer must cross chank allolibility with applicable to be a fact of a



# Precision rings incorporated

5611 Progress Rd \* PO Box 421189 \* Indianapolis, IN 46242 \* Phone 317-247-4786 \* Fax 317-248-9781

#### CERTIFICATION OF CONFORMANCE

PRECISION RINGS, INC. HEREBY CERTIFIES THAT THE BELOW LISTED ITEMS HAVE BEEN MANUFACTURED, INSPECTED AND TESTED IN ACCORDANCE WITH ALL CUSTOMER ORDER REQUIREMENTS, SPECIFICATIONS AND APPLICABLE DRAWINGS.

ATTACHED ARE HATERIAL TEST REPORTS, HEAT TREAT CHARTS, INSPECTION DATA SHEETS AND OTHER DOCUMENTS AS REQUIRED BY CUSTOMER PURCHASE ORDER.

PRECISION RINGS, INC. FURTHER CERTIFIES THAT DURING THE HANUFACTURING PROCESSES, TESTS AND INSPECTIONS, THE PARTS DID NOT COME IN CONTACT WITH HERCURY OR ANY OF ITS COMPOUNDS NOR WITH ANY CONTAINING DEVICES EMPLOYING A SINGLE BOUNDARY OF CONTAINMENT.

CUSTOMER HAME	PRIME TURBINES		
PURCHASE ORDER NO	P08495		PO NO
DRAWING/PART NO.	3024979PR	REVISION B	
PRECISION RINGS PART	NO	REVISION	
PRECISION RINGS, INC.	CODE NO. 99121	QUANTITY SHIPPED	2 PCS
LCT НО. 11556- Q	OO SERIAL NO	DESCRIPTIONE	RING, SEALING
HRB (MATERIAL REVIEW :	DOCUMENT WHEN APPLICABLE)		
	PWC ENGINE MODELS: P -25, -25A, -27, -28, L WAS FURNISHED BY CUSTOMER	T6A-6, -11, -11AC -110, -112	;, -15AG, -20, -21,
2.) MATERIA	L WAS FURNISHED BY PRECISION	RINGS, INC.	
	H AMS 5759		
RAW MATERIAL HEAT NO.	203700	MATERIAL CONDITION	HARDENED
SPECIAL PROCESS			
PPOCESS PERFORMED	SPECIFICATION SPE	C. REV.	SUPPLIER AND CODE
			<u> </u>
		<u>-</u>	
DATESEPTEMBER 28		ELCIUS CONTROL HANAGER	SWORM TO BEFORE HE THIS
			r expires adgust 27, xxxx 2001
STATE OF INDIANA; COUN	TY OF HARION		Parimer
		SANDRA :	( POREMBA

NOTE: THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT ENTRIES ON THIS DOCUMENT HAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES, INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.

"EQCIPHENT CONTAINING HERCURY OR MERCURY COMPOUNDS HAS NOT BEEN USED FOR FABRICATION, PACKAGING, EXAMINATION OR TESTING OF PARTS, ASSEMBLIES OR MATERIAL SUPPLIED ON THIS ORDER."

Platt



### **SERVICEABLE TAG**

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	CUSTOME	/	, P.	ART NAME	
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		Inspector 11403 d/or repaired in accration and is appro tithis repair station	Cordance will	Date 5 // 5	199
W/0 NO	3297		7	/	1
			Signed (	for Turbine Will Eric Cate	`

## BANYAN AIR SERVICES, INC.

1 7 7 17	TTD 67 1 TTG		-			,		K	
I. UNI	TED STATES		2. FAA F	ORM 813	ORM 8130-3 3. System Tracking Ref. No.				
			AIRWORTHIN	ESS APPROVAL	TAG			_	
					t of Transportation 30763				
				tion Adminstrati	on Adminstration				
4. Organ	-	n Air Ser			5. Work Order, Contract, Invoice Number				
			rcial Blvd.				<u>.</u>		
		uderdale,		_			30763		
6. Item	7. Description		Fax (954) 491-161						
5. Item	7. Description	8.Pan	Number	9. Eligibility *	10.		11.Serial/Batch Number	12. Status/Work	
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HW-	3015442			•	•				
				•					
	parts must be accompar	iied by mai	ntenance history inc	luding total time/t	otal cyc	les/tim	e since new.		
14.				19.	19. Return to Service in Accordance with FAR 43.9				
New	Overhauled	N/A		Return to					
Newty	Overhauled							1	
Certifies tha	at the new or newly over	hauled part	(s) id=tified above.	Certifies that t	he work	specif	ied in block 13 (or :	ittached) above	
ಜೀರಪಾರ ಚಿತ್ರ ೧೮	herwise specified in bloc	k 13 was (1	wers) manufactured		Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations				
in accordant	ce with FAA approved de	zign data a	nd airworthiness.			ork pe	rionned the part(s)	is (are) approved	
VO	ase of parts to be export			for return to se	rvice.			1	
		1		/					
the importing country have been met.  15. Signature   16. FAA				20. Authoriz	न अव	aldra	. 01 .12	l. Certificate No.	
Authorization No.				20. Addioing	74	77			
	N/A		N/A		7 (	10		WD4R618M	
7. Name (	Typed or Printed):		18. Date:	22. Name (Typ	ed or P	inted).		B. Date:,	
				1 - V	2	1		1/2	
	N/A		N/A	1 05	71	0	20/1/2 (	0/4/15	
111 Fa-	2122 2							, ,	

1. United States		Air Depa	Form 8130-3 worthiness Approva artment of Transpo eral Aviation Admin	rtation	3. System Tracking Ret. No. Traveler 9021462-1 P/S 075005				
4. Organi	12	Thompso	Surface Technolog on Rd. sor, CT 06088	ies "G2PR726J"	5. Work Order, Co P.O. 15245	ontract, or Invoice Number	r		
6. Item	7. Desci	iption	8. Part Number	9. Eligibility	10. Quantity	10. Quantity   11. Serial/Batch Number   12.			
	VANES	3	T019551	PT6A-20	26	32978	Repaired		
Cert:	tified abo	t the ne	w or newly overhau	pecified in	Certif attach		ed in block 13 (or in accordance with		
bloc	k-13 was (	were) ma	ept as otherwise s nufactured in acco	ordance with FAA	FAA ai work p	attached above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is(are) approved for return to service.			
Note			s to be exported, the importing cou		net.				
15. Sign	ature		16. FAA Authorisa	ation No.	20/Author		cification No.		
17. Name(Typed/Printed) 18. Date						Typed/Printed) 23. Date MM MOWREY 10/2	29/98		

FAA Form 8130-3 (11-93)
-eligibility with applicable technical data

\*(Optional) Installer must cross check

1.	2.					3. System Tracking	Ref. No.		
	UNITED STATES	FΛΛ	<b>FORM 81</b>	30-3					
				·		2055			
AIRWORTHINESS APPROVAL TAG  U.S. Department of Transportation						985501			
			repartment of Transpo eral Aviation Administ						
4. Organ	nization				.4.3	5. Work Order, Co	ontract or Invoice Number.		
		sion of Dynamic Mate	rials Corporation	•					
	283 Sullivan Avenu South Windsor, CT				P.O. # 15497				
6.	7.	8. 7 7 7. W	9.	10.	11.	, as an agraphical of full discourse from soften manner were agraphed filter to agraph from a particular of the soften filter and th	12.		
Item	Description	Part Number	Eligibility *	Quantity	Seria	l / Batch Number	Status / Work		
				Ì			1		
				<u> </u>			REPAIRED		
1	GUIDE VANE	T019551	JN# 32978	1	S/N	1: N/A			
13. Re	emarks								
Limited	life parts must be accompanie	d by mai itenance histo	ry including total time /	The state of the s	since new.				
4 <b>4</b> .				19.					
Nev				RETURN TO	) Service I	n Accordance with	FAR 43.9		
Nev	vly Overhauled 🛚								
Certifie	es that the new or newly overha	uled parts(s) identified	above, except as	Certifies that the	work speci	ified in block 13 (or a	ttached) above was carried		
otherw	ise specified in block 13 was (w	rere) mapulactured in a		out in accordance	e wilh ÈAA	airworthiness regula	itions and in respect to the		
approv	ed design data and airworthine		work performed t	he part(s)	is (are) approved for	return to service.			
	: In case of parts to be exported, the	the importing country							
15. Si	gnature	16. FAA Authorizat	ion No.	20. Authorized S	Signature:	21. Certifi	cate Number:		
17. Name (Typed or Printed)  18. Date:  22. Name Typed or Printed ROBERT C. SANBORN							12/08/98		

1.	1	2.		3. System Tracking Ref. No.					
	UNITED STATES	FAA	30-3	:					
•		AIRWOR <sup>-</sup>	THINESS APPRO	OVAL TAG		96420	1		
		U.S. 1	Department of Transpo	rtation					
		Fed	eral Aviation Administr	ation		E Work Order Co	antract or Involce Number		
4. Organ		Division of Dynamic Mate	rials Corporation		م <b>ا</b> ء		ontract or Invoice Number.		
		renue, P.O. Box 663				P.O.# 15278			
		, CT 06074-0663,			1 77		140		
6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Seria	1 / Batch Number	12. Status / Work		
Item	Description	r art rumber	Ligionity	Quantity	00110	T Daton Namber	Builds / Work		
1	GUIDE VANE	T019551	JN# 9007Q	7	329	978	REPAIRED		
	,	;			}				
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Limited	life nade must be accomn	anied by maintenance histo	ny including total time / t	otal cycles / time s	since new				
14.	me parts must be accomp	amed by maintenance mate	y morading total time?	19.	31100 11011.				
New	<u>_</u> 0						l l		
				RETURN TO	Service i	n Accordance with	FAR 43.9		
New	ly Overnauled 🗍								
Cortifies	s that the new or newly ov	erhauled parts(s) identified	above, except as	Certifies that the	work speci	ified in block 13 (or a	illached) above was carried		
otherwi	se specified in block 13 w	as (were) mapulactured in a	accordance with FAA	out in accordance	e with FAA	airworthiness regula	ations and in respect to the		
	ed design data and airworl			work performed t	he part(s)	is (are) approved for	return to service.		
NOTE	In C C	al the ensaid construents a	f the importing country						
have bee		ed, the special requirements o	i me importing country						
15. Sig		16. FAA Authoriza	tion No.	20 Authorized S	Signatures	21. Certif	icate Number:		
15. 319	gridion	10. 17017101101120							
17. Net	me (Typed or Printed)	18. Date:		22. Name Typed			11/00/00		
				ROBERT C.	SANBOR	<u> </u>	11/09/98		

i. UN	TED STATES	2 . A	FAA FOR	S APP	POVAL	_ TAG	3. SYSTEM TRACKING REF. NO.			
4. ORGANI	SERMATE 155 S.	ECH INTERNAT LIMERICK RO CK, PA. 1946	TIONAL REPA DAD 58	IR S BHIR	TATIO )34K	N #	5. WORK ORDER, CO. ρο. 130	ONTRACT, OR INVOICE MUMBER.		
6. ITEM	7. DESCRIPTION	B, PART NUMBER	9. ELIGIBILITY#	10. QUA	HTITY	11. SERIAL/BAY	CH HUMBER	BER 12. SYATUS/WORK		
13. REMAR	Turbine uques	T019551	TBV BY Installer	12/1				Repair		
HOTICE:	OF THE PART (S) BEFORE US UNDER THE SERWATECH INVOI	Y THE CUSTOMER HAS BEE SE TO DETERMINE AIRWORT ICE NUMBER SHOWN ABOVE.	N PERFORMED AND INSPECT HINESS/SERVICEABILITY.	ED ON THE PERTINENT	PART (S) DETAILS C	DF THE WORK PERFORM	THE CUSTOMER MUST	PERFORM FURTHER INSPECTION THIS REPAIR STATION		
CIMITED 14.	LIFE PARTS MUST BE ACCOMP	ANIED BY MAINTENANCE H	IISTORY INCLUDING TOTAL	TIME/TOTA		TIME SINCE NEW.				
NEWLY OVERHAULED  CERTIFIES THAT THE NEW OR NEWLY OVERHAULED PART(S) IDENTIFIED ABOVE, EXCEPT AS OTHERWISE SPECIFIED IN BLOCK 13 WAS (WERE) MANUFACTURED IN ACCORDANCE WITH FAA APPROVED DESIGN DATA AND AIRWORTHINESS.  HOTE: IN CASE OF PARTS TO BE EXPORTED, THE SPECIAL REQUIREMENTS OF THE IMPORTING COUNTRY HAVE BEEN MET.					RETURN TO SERVICE IN ACCORDANCE WITH FAR 43.9  CERTIFIES THAT WORK SPECIFIED IN BLOCK 13 (OR ATTACHED) ABOVE WAS CARRIED OUT IN ACCORDANCE WITH FAA AIRWORTHINESS REGULATIONS AND IN RESPECT TO THE WORK PERFORMED THE PART(S) IS (ARE) APPROVED FOR RETURN TO SERVICE.					
15. SIGN/	TURE		16.FAA AUTHORIZATI	ON NO.		TIZED STONATURE		21. CERTIFICATE NUMBER: BH1R034K		
17. NAME (TYPED OR PRINTED): 18. DATE:						(TYPED OR PRINTED)	05.9	23. DATE: 12-21-98		

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:	TED STATES	. c.	F	AA FORN IRWORTHINESS A U.S. Department of Federal Aviation A	Administration	}	3. System Trackin	011		
4. Organizal	tion TUR	BO	PRODUCTE A	DIVISION OF D	CALVERS THE	· 33		ontract, or Invoice Number:		
6.	110 /	, WOM	EADOW Rd I	TYCY YTOW CT	06442	111.	63592	(4-74S8)		
ltem	Description		Part Number	Eligibility *	Quantity	Serial/Batch Num	nber	Status/Work		
01	OI TURBINE Vane		T019551	20 70A 200	0.	N/A	/	REPAIR		
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			ILET J	ified PER OB# 32978	-12	-				
Limited	lile parts must be acc	compani	ed by meintenance his	story including total time	a/total cycles/time sinc	e new.				
New Certifie as other	Limited life parts must be accompanied by maintenance history including total time.  New Serbauled Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance					Return to Service in Accordance with FAR 43.9  Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.				
NOTE:			airworthiness. I, the special regiremen	nts of the importing	, 3	- Frankshire family at the se		•		
15. Signal	y have been met. ture			16. FAA Authorization No.:				21. Certificate Number.		
17. Name	[Typed or Printed].			18. Dale:	22. Name (Typed or Print	T / ATHEN		23. Date: 1/7/99		

4. Organization Eederal Aylatlon Adn		5. Work Order, Contract, or invoice Number:
DEAN MACHINE PRODUCTS, INC. 102 Colonial Road		P/O R16042
6. Item 7. Description 8. Part Number 9. Eligibility*	10. Quantity 11. Serial/Batch Nun	nber 12. Status/Work
1 C.T. Vanc FΛΛ PMΛ T019551 PT6Λ	26 NSN	OVERHAULED
Inspected and repaired I.A.W. FAA approve for Compressor Turbine Vanes manufacture \$\frac{1}{\sqrt{\chi}}\$\$\$\$\$ \sqrt{\chi}\$	7	•
Limited life parts must be accompanied by maintenance history including total time/to	Į. Partininkas ir ir ir ir ir ir ir ir ir ir ir ir ir	
New Newly Overhauled Describes that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) majorated in accordance with Far approved design data and airworthiness.  NOTE: In case of parts to be experted, the special requirements of the importing country have been met.	A performed the part(s) is (are) ap	in block 13 (or attached) above was carried out incess regulations and in respect to the work
15. Signature 16. FAA Authorization No.	20. Authorized Signature:	21. Certificate Number
17. Name (Typed or Printed) 18. Date:	22. Name (Typed or Printed)  Kennith S. Webl	23. Date: January 7, 1999
	ent than the Airworthiness Authority of the country specified the country specified in Block 1.	ed in Block 1 it is essential that the user / installer ensures that

The FAA Form 8130-3 and JAA Form One are equivalent, Other countries such as Canada also have acceptable documents.

### UNITED TURBINE CORP. 8045 NW 90 STREET MIAMI, FL 33166

PHONE (305)885-3900 FAX (305)885-0472 FAA/JAA APPROVED REPAIR STATION NO. UTUR555L

### WORK ORDER FORM

CUSTOMER BANYAN AIR SERVICE W/O 1832 P/O 80015150
UNIT NAME I.E DUCT ASSEMBLY_ P/N _ 3020259 S/N _NSN:
THIS UNIT WAS REPAIRED IN ACCORDANCE WITH
MANUFACTURER'S OVERHAUL MANUAL P/N 3011403 REV. 14
WITH THE FOLLOWING SERVICES:
DISASSEMBLE CLEAN INSPECT REPAIR
PAINT N/A ASSEMBLE BALANCE TEST
PARTS REPLACED
P/N DESCRIPTION QTY   P/N DESCRIPTION QTY
_3019551
_3020484_ SEGMENTS1
MODIFICATIONS C/W NONE
SHOP FINDINGS REPLACE 16 VANES AND 14 SEGMENTS. CHECK BALANCE C/DISK P/N 3013511 S/N 2C714 AND INSTALL IN ENGINE S/N FCE-22G08_AND FUNCTIONALLY TESTED. NOTE C/T CLASS 12.2
INSPECTOR'S SIGNATURE DATE _06/10/99
FORM NO. 501 REV 13/16/96

### BANYAN AIR SERVICES, INC.

1 17077	TED STATES								
1. UNI	IED STATES		2. <b>FAA F</b>	ORM 813	0-3	3. S	ystem Tracking	Ref. No.	
			AIRWORTHIN	ESS APPROVAL	TAG		-		
					t of Transportation 30763				
				tion Adminstrati	on Adminstration				
4. Organ	•				Ì	5.Wo	rk Order, Contract,	Invoice Number	
	1575 W. (				1	-			
	Fort Laud			_	- 1		3076	3 :	
6. Item	(934) <del>1</del> 91.		Fax (954) 491-161		<u>.                                      </u>				
o. Item	7. Description	8.Part	Number	9. Eligiblity *	10. Quanti	ity	11.Serial/Batch Number	12. Status/Work	
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Limited life	varis must be accompanied	לים אם או	ntenance history inc	iuding total timeiti	ntal cycli	es/tim	e since new		
14.				119.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3,1100 7107.		
New	М.	/A		Return to	Service	in Ac	ordance with FAR	43.9	
Newly	Overhauled								
Certifies tha	it the new or newly overhau	iad nord	(c) identified above	اد دوراد مدازنسد	a mori-	-naci?	ied in block 13 (or a	machad) abawa	
except as oth	herwise specified in block 1	3 was (v	vere) manufactured				with FAA airworth		
n accordanc	e with FAA approved desig	n data a	nd airworthiness.	and in respect t	o the wo	rk per	formed the part(s)	s (are) approved	
				for return to se		•	, , ,		
NOTE: In a	ase of parts to be exported,	the spec	ial requirements of						
ine importini 15. Signatu	g country have been met.		lic p.	120 1/1	1.6		/	G 15 . N	
is. Signatu	115		16. FAA Authorization No.	20. Anthorize	io Am	iline:	<u> _</u> 뭐시	. Cartificate No.	
	N/A		N/A	2				WD4R618M	
7. Name (	Typed or Printed):		18. Date:	/ IName (Kpe	d or Pri	nte#):	23	. Date:	
	••		/	190	/	7		///	
	N/A		N/A /	1/ 7	*(1	TO	1413 (	6/4/99	
AA Form	3130-3 (11-93)			(Optional) Installer	must cros	s check	silgibility with applica	adle technical data.	

CUSTO - ST SUPPLIED

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1. United States	} U.S. !	FAA FORM 8130-3 irwerthinese Approvel Tag Department of Trensportation and Aviation Administration		J. System Trucking Ref. No.			
4. Organization  Dallas Airmoth	C. Dates Alimetiv 8114 Forest Pi Dalles, TX 753	trit Read		5. Wark Order, Contract, or Invoice Number:			
6, Itans	7. Description #1 CT DISK		8. Part Number 3013511				
9. Eighility* PT6 - TBV BY INST.	10. QIy.	11. Serial/Beach No. 2C714	12. Status/World	rk			
OVERHAUL INSPECTED I.  MARKED DIA: 6.2886  MEASURED DIA: 6.2889  Details on like at this Repair Station:	inder work arder/a reference	Inspector JAMES E. BREVI		CSO: 0.0			
14. New C Newly Overhauled C Certifies that the new or newly every except as otherwise specified in bloc in accordance with FAA approved de NOTE: In case of parts to be experten							
15. Signature	16. FAA Authorization No.	20. Authorised Stanburger	1	21. Cartificate Number: YRRR491L			
17. Name (Typed or Printed)	18. Data	2g. Name (Typed or Print: MARK CHRISTO		23. Date 10/27/98			
FAA Forme Akron-Visione Approved Tag Uper/igstaffer Reoperathilities							
It is important to understand that the existence of this document alone does not automotivally equalities acquirity to install the particomponent/assembly.  Where the unerfluentials would be accorded to this the testional requirities of an Aircraftinate Automity different than the Aircraftinate Automity of the country.							

specified in Short 1 R is secretial that the energiestaffer enumes that Healthar Airworthines Authority scampts perint/compensational assembles from the Airworthines Authority of the outsity specified in Most 1.

Statements in black 16 and 18 do not contribute installation cartification, is of cases elevant maintenance recenic reset contain or installation certification learned in accordance with the national regulations by the secrification before the elevant may be flegred.

The FAR Form \$120-3 and JAA Form One one equivalents, Other eventries such as Canada also have equivalent exceptable documents.

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rub - R <b>etr</b>	3013111	A7898		3909	3909
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#### A O NOTE MA SERMOZ BULLETIN COMPLIANCE

AIRWORTHINESS DIRECTIVES PREVIOUSLY COMPLIED WITH:

AD 75-11-04, Amend.# 39-2207, dated 5/20/75.

AD 75-05-01, Amend.: 39-2858, dated 4/1/77.

AD 8C-04-02, Amend.# 39-3693, datad 2/8/80.

NO 80-98-12, Amend. # 39-3748, dated 4/13/80.

BERVICE BULLETINS COMPLIED WITH:

Reduction Gear: 5/8 1039, 1226, 1240, 1248, 1258, 1291, 1218,

1331, 1338, 1339.

Power Section: 5/8 1150, 1278, 1246, 1270, 1389.

Cas Cenerator: S/B 1081, 1139, 1166, 1245, 1273.

Accessory Gearcox: 5/6 1082, 1285.

External # Misc.: 9/8 1002, 1203, 1255, 1276.

ACCESSORIES SERVICE BULLETING COMPLIED WITH;

Pusi Control: (S/N 104836) GT51, GT55.

Fuel Notzle: 73-7.

United States  United States  AIRWORTHINESS APPROVAL TAG  U.S. Department of Transportation Federal Aviation Administration						18	332		
4. Organization UNITED TURBINE CORP. PHONE (305) 885-3900 8045 NW 90 STREET FAX (305) 885-0472 MIAMI, FLORIDA 33166 http://www.PT6.com U.S.A. e-mail: PT6@unitedtur					0472 1	ne.com		Order, Contract or Invoice No.	
6. Item	7. Description	8. Par	1 Number	3. Eligibility	10. Qty	11. Serial/Ba	tch No.	12. Status/Work	
1	BLEED VALVE	302064	<b>!9</b> "		1	A2024		NEWLY OVERHAULED	
	OVERHAULED I/A/W MAN	UFACTURER	S OVERHA	UL MANUA	L P/N 30	011403 R-	14	<i>‡</i>	
Limi	ted life parts must be acc	ompanied by	maintenan	ce history i	ncludin	g total tim	e/total cy	ycles/time since new_	
	ewly Overhauled			Certifies	Return to Service In Accordance with FAR 43.9  Certifies that the work specified in block 13 (or attached)				
Certifies that the new or newly overhauled part(s) identified above except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness.  Note: In case of parts to be exported, the requirements of the importing country have been met.				d perform	above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are)  APPROVED FOR RETURN TO SERVICE.			ta the work	
15. Się	gnature-	16. FAA Auth	norization No	29. Autho	rized Sign	ature.	<b>8</b>	21. Certificate Number	
17. Na	me (Typed or Printed)	18. Date		ł	(Typed or IL R. DIS			23. Date 6/7/99	

#### Airworthiness Approval Tag

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part / component / assembly. Where the user/installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness. Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components /assemblies from the Airworthiness Authority of the country specified in block 1. Statements in blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

<sup>\* (</sup>Optional) Installer must cross check eligibility with applicable technical data

TWASO PRODUCTS A DIVISION OF DIXOSTERS TAL. 5 Work Query Controls Number Mile 1 of 1 Discreption 1 D		AA FORI AIRWORTHINESS U.S. Department of Federal Aviation	APPROVAL TAG	}	3 System Tracking	Rel No		
Description   Prof.   Ga G   Hamber   Prof.   Ga G   Hamber   Ha	TUKISO MODUC				5. Work Order, Con PAGE	ntract, or Invoice Number:		
Already   Allegate	llem Description Bart Nymber	9 Eligibility *	10. Ouantity	1 1 1	ber 12.	Status/Work		
AIRWOCTNINESS APPROVAL—PRAIS INIS FORM IS NOT AN EXPORT RPPROVAL  Limited life parts mist be accompanied by maintenance history including total lime/total cycles/time since new.  14. New Newly Overhauled □  Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA alrworthiness regulations and in respect to the work performed the part(s) is [are] approved for return to service  NOTE: In case of parts to be exported, the special regirements of the importing country have been met  15. Segnature  NE 841014  NE 841016  18 Name (Typed or Printed)  20 Name (Typed or Printed)  22 Name (Typed or Printed)  23 Date  24 Name (Typed or Printed)	OI TURBO  BKT TO23401  REV.K		110 58	N/n		NEW		
New Newly Overhauled  Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness.  NOTE: In case of parts to be exported, the special requirements of the importing country have been met.  NE 841024  NE 841076  18 Date  Return to Service in Accordance with FAR 43.9  Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.  20 Authorized Signature  21 Certificate Number 22 Name (Typed or Punted)  22 Name (Typed or Punted)  23 Date	MENDETHINKER DEPONDED - PLATE AND TO							
Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness.  NOTE: In case of parts to be exported, the special reqirements of the importing country have been met.  15. Signature  NE 841076  NE 841076  18. Date  Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.  21. Certificate Number 22. Name (Typed or Printed)  22. Name (Typed or Printed)  23. Date:	[ 14 .	istory including total time	79					
Country have been met.  15 Signature  16 FAA Authorization No 20 Authorized Signature  21. Certificate Number NC S41076  17 Name (Typed or Printed)  18 Date 22 Name (Typed or Printed)  23 Date:	Newly Overhauled Cartifies that the new or newly overhauled part(s) identifies otherwise specified in block 13 was (were) manufacture with FAA approved design data and airworthiness.	Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the						
TOR DIL.  NO. SH1076  17 Name (Typed or Printed)  NO. SH1076  18 Date  22 Name (Typed or Printed)  23 Date:	NOTE: In case of parts to be exported, the special regirement country have been met.	nts of the importing						
DAVID J LATHMOP 4.23.99	TOR DJL.  17 Name (Typed or Printed)	NE 841076		20)		21. Certificate Number:		

# BANYAN AIR SERVICES, INC. 72/H

1 175	TED STATES					
1. UNITED STATES 2. FAA FO			ORM 813	10-3	3. System Tracking	Ref. No.
		AIRWORTHINE			2-71.	3
		U.S. Departme	nt of Transporta	noin	3076	
			tion Adminstrati	on		
4. Organ		Air Service			5. Work Order, Contract,	, Invoice Number
		Commercial Blvd.				_
		erdale, FL 33309		1	30763	<b>&gt;</b>
<u> </u>		-3170 Fax (954) 491-161		<u>:                                    </u>		
6. Item	7. Description	8.Part Number	9. Eligiblity *	10. Quanti	11.Serial/Batch  Number	12. Status/Work
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'			PTGA-ZD	1.2	10 to	-100
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	<i>i</i> *		•			
Limited life	parts must be accompanied	ov maintenance history inc.	luding total time to	otal cycle	esitime since new	
14.			19.			
New	N/	'A	Return to	Service i	in Accordance with FAR	43.9
Zewik	Overhauled					
وما: وه: المعانية	it the new or newly overhau	(ad age(c) identified chara	المعاد معارضا	<b>.</b>	specified in block 13 (or a	
except 25 ori	herwise specified in block 1	3 was (were) manufactured	was carried out	in accon	dance with F.A.A. airworth	ines remissions
in accordanc	e with FAA approved desig	n data and airworthiness.			rk performed the part(s)	
	_		for return to see		• • • •	. ,
NOIZI in a	ase of parts to be exported,	the special requirements of				
15. Signatu	g country have been met.	116 744	120 1 1/-	Lice:	//	
is. Signatu		16. FAA Authorization No.	20. Authoriza	20 218m3		l. Certificate No.
	N/A	N/A				WD4R618M
17. Name (	Typed or Printed):	18. Date:	12. Xarde Type	ed of Prin	nted): 23	Date:
	N/A	N/A	1/50	for:	2777	5/12/99
FAA Form	1 3 1 3 0 - 3 (11 - 93)		* (Optional) installer	. WITE (1.02)	s check eligibility with applica	able technical data.



# Precision rings incorporated

5611 Progress Rd \* PO Box 421189 \* Indianapolis, IN 46242 \* Phone 317-247-4736 \* Fax 317-248-9781

#### CERTIFICATION OF CONFORMANCE

PRECISION RINGS, INC. HEREBY CERTIFIES THAT THE BELOW LISTED ITEMS HAVE BEEN MANUFACTURED, INSPECTED AND TESTED IN ACCORDANCE WITH ALL CUSTOMER ORDER REQUIREMENTS, SPECIFICATIONS AND APPLICABLE DRAWINGS.

ATTACHED ARE MATERIAL TEST REPORTS, HEAT TREAT CHARTS, INSPECTION DATA SHEETS AND OTHER DOCUMENTS AS REQUIRED BY CUSTOMER PURCHASE ORDER.

FRECISION RINGS, INC. FURTHER CURTIFIES THAT DURING THE HANDFACTURING PROCESSES, TESTS AND INSPECTIONS, THE PARTS DID NOT COME IN CONTACT WITH HERCURY OR ANY OF ITS COMPOUNDS NOR WITH ANY CONTAINING DEVICES EMPLOYING A SINGLE BOUNDARY OF CONTAINMENT.

CUSTOMER HAME	PRIME TURBINES			
PURCHASE ORDER NO.	P08495	ITEM NO	PO NO	
DRAWING/PART NO.	3024979PR	REVISION B		
PRECISION RINGS PART N	o. <u> </u>	REVISION		
PRECISION RINGS, INC.	соре но99121	QUANTITY SHIPPED	2 PCS	
LOT NO. 11556-00	O SERIAL NO	DESCRIPTION	RING, SEALING	
	CONENT WHEN APPLICABLE)			
	PWC ENGINE MODELS: PT -25, -25A, -27, -28, WAS FURNISHED BY CUSTOMER	76A-6, -11, -113 -110, -112	AG, -15AG, -20, -21,	,
2.) MATERIAL	WAS FURNISHED BY PRECISION	RINGS, INC.		
MATERIAL SPECIFICATION	Ams 5759	SPECIFICATION REVI	SION	
RAW MATERIAL HEAT NO.	Z03700	HATERIAL CONDITION	HARDENED	
SPECIAL PROCESS				
FROCESS PERFORMED	SPECIFICATION SPEC	. REV.	SUPPLIER AND CODE	
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	SEPTEMBER , 19 98		ON EXPIRES AUGUST 27, 🔀	XXX 2001
STATE OF INDIANA; COUNT	Y OF MARICH	~~~ / / / / / / / / / / / / / / / / / /	X PORENEA	

NOTE: THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT ENTRIES ON THIS DOCUMENT HAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES, INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.

"EQUIPHENT CONTAINING MERCURY OR MERCURY COMPOUNDS HAS NOT BEEN USED FOR FABRICATION, PACKAGING, EXAMINATION OR TESTING OF PARTS, ASSEMBLIES OR HATERIAL SUPPLIED ON THIS ORDER."

LOTZ1

	<del></del>			·			
1. Country:  2. Title:  FAA Form 8130-3  3. System Tracking Ref. Number Airworthiness Approval Tag							
United States U.S. Department of Transportation Federal Aviation Administration W12309 D							
4. Company:	Barr	R STATION UE5R2  nstable Municipal Airport	246N	5. Work Orde Number:	r, Contract, or Invoice		
lanne ui	rbines Hyan	nis, Massachusetts 0260 Tel. 508-771-4744	11	W123	09		
6.ltem 7. Description:	8. Part Number:	9. Eligibility:	10.Qty 11. Seri	aVBatch:	12. Status/Work:		
1 THERMOCOUP	LE 3022983	P&W PT6	NA JU		OVERHAULED		
				: :	,		
13. Remarks:		1		<u> </u>			
OVERHAULED 1/A	OVERHAULED I/A/W P&W MANUAL P/N 3013243 REV 11.						
Name STEVE GUS	TAFSON Date 02	/15/99 Wor	k Order#	W12309			
Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.							
4. New Newly Overhauled 1  Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.							
5. Signature:	13. FAA Authorization	Na: 20. Authorized Sign	nature:	21.	Certificate Number:		
7. Name (typed or printed)	16. Date:	22. Name (typed or		23.	Date:		
		STEVE GU	STAFSON		02/15/99		
AIRWORTHINESS APPROVAL TAG User/Installer Responsibilities							

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer work in accordance with the national regulations of an Airworthiness Authority is different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

\*Installer must cross check eligibility with applicable technical data. FAA Form 8130-3 (10-96)

The FAA Form 8130.3 and JAA Form One are equivalent. Other countries such as Canada also have equivalent acceptable documents.

3. System Tracking Ref. No. UNITED STATES 5.0.00387-02 U.S. Department of Transportation Federal Aviation Administration 5. Work Order, Contract, or Invoice Number: 4. Organization 100 Invoice# 1310 Semco Instruments, Inc. 25702 Rye Canyon Road Valencia, Calif. 91355 B. 12. Part Number Eliability \* Quantity Status/Work item Description Serial/Batch Number 00) SN 4970 THERMOCOUPLE BUS OVERHAULED 3024120 VARIOUS BAR 13. Remarks See attached Analysis/Teardown Report Reference Procedure RPS3024120 Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new. 14. New Return to Service in Accordance with FAR 43.9 Newly Overhauled Certifies that the work specified in block 13 (or attached) above was carried Certifies that the new or newly overhauled part(s) identified above, except out in accordance with FAA airworthiness regulations and in respect to the as otherwise specified in block 13 was (were) manufactured in accordance work performed the part(s) is (are) approved for return to service. with FAA approved design data and airworthlness. NOTE: In case of parts to be exported, the special regirements of the importing country have been met. 16. FAA Authorization No.: 20. Authorized Signature: 21. Certificate Number: 15. Signature 22. Name (Typed or Printed) 23. Date: 18. Date: 17. Name (Typed or Printed):

3-23-99

# UNITED TURBINE CORP. MIAMI, FL 33166 FAA APPROVED REPAIR STATION UTUR555L

	ACCESSOR	SCO YS	T ESTIMA	TE				
CUSTOMER BANYAN  DESCRIPTION Bleed value					W/O 1837 020094 2024			
FLAT RATE INCLUDING 100% KIT (REPAIR, OVERHAUL) \$75000								
ADDITIONAL P	ARTS REQUIRED:							
PART NUMBER	DESCRIPTION	QTY	COND	PRICE	EXTENDED			
OUER	HAUL KIT							
TOTAL ADDITIONAL PARTS: 750.00  TOTAL COST ESTIMATE: SHOP FINDINGS: DIAPHRAGM WAS broken								

FORM NO. 506 QRIG: 09/04/93

#### AGRETIANCE TEST RESULT

# TEST LOG PTS - FORM NO. 513

CUSTOMER	DATE OF TEST06-10-1999	CT VPME CLASS
JOB NUMBER	STARTING TIME09;33	PT VAME CLASS
ENGINE \$/W 72008	STARTIME TIME	}
EMINE MUSEL PTEA-20	TOTAL TIME (MIN) 49	i 1
PERFERNANCS 58, 1094	•	
LHV OF FUEL 18540		TOT LE BY CHECK
TSG SAMPLE	AGCELERATION []HE	MB LP W CLOSES
SE SAMPLE8	TEST EVENTS 3.4.6.12.13.	TTI HE BY CHECK
TTE FOR IS TRIP	MAX NG THEM STOP	ME MP AV CLOSES
DEL 15 (F1	ITI HE THIN STOP	LP BV BRIFICE SILE
		HP BN: ORIFICE SIZE
	BUN DOWN TIME ME.	HUR DOWN TIME WE
T性T例ER 产/第	CDR9 TTS ,	CORR W 999
TRUMER OWS	CQRR P\$3999	COMPA X8
		•

DESCRIPTION  VPROFILER  B/I FEBINER	222763	NF THERESE 13	TURQ 3N0 44446	94	100	171 ****** 99.3	775 #### 1042	117 *****	753 *****	P\$3	#GP === 70.	***	HdT 130	*****	0	1.2	COMMENTS
S/I UNFEATH	52.7	38.4	10.56	15	100	34.0	1051	9		21,	89.	61.	130	30 00	10	5.3	
ACCEPTANCE	99,101	102.56	77.77	87	473	33,8	1377	9	707.	138	75.	56.	152	\$6.56	1.1	. 12	111
	97.787	102.21	72.15	87	355	35.1	1348	4	591.	133	75	<b>\$</b> \$.	147	29.55	1.1	10	
	94 024	36 . 577	£6.74	38	247.	96.3	1272	3	££2.	117	75	57.	151	36,00	. 99	.15	
	91.262	92.189	<b>53</b> 47	\$7	275.	33.3	1222	3	<b>529</b> .	107	7.a	57	148	30.00	. <del>čš</del>	. 10	
NCCEPTANCE (	36883		550		712	)	1765	)	731	6.1						:	NG TTS SEC
HAI CLINE	36702.		238		.716		1756										<b>\$</b> FC
MAY CRUISE	36453.		495		.735		1723									!	SEC
BATA MATE S	35767		475													į	35.37¥ ¥5

OHM LIMITS 36850 550 (1.583) (1766) 2 1



# PARTS COMPUTER ENTRY SHEET

<b>.</b> .	_	
Entered	ime	

Date

#### 'The Aviation Professionals"

PART NUMBER	SERIAL NUMBER	DESCRIPTION	YTITINAUD	WORK ORDER #	OPERATION NUMBER	NAME RE-ORDEF
277001		Fuel worderies	15	30163	13/14	
200-505		Carlos -	13	_	,	
300 5335		Basket	28	<b>129</b> 763	13/14	
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## PARTS COMPUTER ENTRY SHEET

Entered \_\_\_\_

Date \_

	को । 		"The Aviation Prof	essionals"			
	PART NUMBER	SERIAL NUMBER	DESCRIPTION	QUANTITY	WORK ORDER #	OPERATION NUMBER	NAME RE-ORDE
/	3009072		Cupwaches	+ #4	3	30/63-2	CS
	AS3289-01	<b>&gt;</b>	oring	4.	30762	2	<u> </u>
\	3005305	}	GASKET	43	30763	13/14	CS
<i>)</i> .	3010671		GASKET WASKE	J #8	30763	9	.CS
	3010671		CASKET WAShe	5	30763	10	CS
	T019551		CT VANES	8	307/03	5/6	
/	TO23401		BLADES	116	30763	7/8	
-	3013511	20714	CT DISK OHC	cus	tomer	Lennil	shall
	3013511	408463	CT DISK NEW	1	30763	1071	
	3018240		Rights	116		7/8	
١	AN123158		Quel	9		7/8	···
)	AN125403		river	10		7/8	
	3010117CL3		weight			ウ	
	3010117 CL 2		weight.	2		7/8	
	3010117 CL:5		neight	3		7/8	
	3007422		Packing (V)	2		5/6	
\	300 6317		COED	817		5/6	
	T020485		Segments	36	30763	5/6	
.	3024120	8F104	Bustar		35763	9	
	3024120	4870	Buobar		36763	10	:
	3024979		Seal Ring	2	30763	9/10	
	T020484		Segrents	2	30763	5/6	
	3072983		Hornozouple	3?	30763	9/10	
						710	
-	2380		oi)	2			

## RECEIVING AND INSPECTION REPORT

ITEM NO	PART NUMBER	DESCRIPTION	SERIAL NO	QTY SHIP	OTY RECV	
	30/341/	CTDISK	7882			
2	3013511	CT DISK	1P576		1	
3	3017860	Clamp	NA	:		
<i>У.</i>	302:3774	combustion lines	224/			
5	3010149	FUEL Flow DIVIDERS	019	1	l	1
6	3010145	FUEL MANIFOLD	NA	13	13	
7	30/0149	FUEL FLOW DIVIDER	178	l	1	(
8	30/0145	FUEL MANFOLD	NA	13	13	1
9			·			
10						
					\$ <del>-</del>	
ONDITI	ON CODE FOR PA	RTS: N-NEW S-SERVICEAB	LE R-REPAIR	ABLE	C-CON	DI
		REMARKS				
						X 2000

REPAIR STATION: WD4R618M

#### PT6A PERFORMANCE RUN

		• •	OA FERF	PUMMING	E NON .		
A/C REG: N3	38 AS				DATE:S	16/99	
A/C MODEL:	ng B	$\simeq \mu \Sigma$			TECHNICIAN:	-3H/	nris
A/C S/N:	493		-		Ubbs.	1325	.5
					,	P	_
	INLET AIF	8 B	ARO. PRESS: 2397	PRESS A	LT: 0.A.T	4°C	
			LEFT E	NGINE	RIGHT E	NGINE	1
	ENGINE M	ODEL	Dita	/20	•	-70	
	ENGINE S	/N	V I Q				1.
•	D.P.S. RPI	<u></u> И		:			1
	D.P.S. %			1	<b>.</b>		
·			SLEET	, VN	CAPPE	$\triangleright$	]
STARTING TEMP	ERATURE	TA	RGET	LEFT So∵OBS	ENGINE SERVED		HT ENGINE BSERVED
TORQUE (PSVFT.	LBS.)	1210	/1240	121	0/1200	1.	1240 1121
ітт ( С)		120		725/720			325/720
FUEL FLOW (PPH	1)	_332		355		-	345
PROP RPM (N2) (	RMP%)	2000		2000			2000 /.
GAS GEN SPEED	(N1) (%)	1952 R 974		26.0 (13.6)			97.5/94.9
OIL PRESS (PSI)		1 2/2			UPS/		PPS
OIL TEMP ( C)		-			~ p		•
				<u> </u>	· · · · · · · · · · · · · · · · · · ·		
IDLE SPEED (N1%	6)			LOW 49,5	HIGH 70.5	LOWSO	5 HIGH 71.8
REVERSE %					12 Tq 920 (A6	N1 88.5	N2: Tq 1950 700
FLIGHT IDLE TOP	RQUE	4051	(a) 2000	52	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	T <	20)
MAX PROP RPM (RPM%)		(	90/1000	21	70	216	5
PROP GOV CHEC	к		`		,		
Q 44	ITT IN	1D 51	1CKY 40°				
D) L/H e,	ng 1/8	£170	N2) 1210	@ NI	1 2169 PS	600D(	770)
s prog	Neeps N Pens	R1991	ng P	INVAN TURBINE TERVICE			
(1) Feather	Den	177 I	<u>l</u> efT /73	0 R194	71790		$\int_{\mathcal{C}}$

#### PT6A PERFORMANCE RUN

A/C REG: N338AS	DATE: (0/2/99
A/C MODEL: KING AIR B 90	TECHNICIAN: JEFF OROTHE

FAX TO BILLY CHAPMAN (404) 349-7810

INLET AIR
TEMP: BARO. PRESS: PRESS ALT: 0.A.T.:
34°C

	LEFT ENGINE	RIGHT ENGINE
ENGINE MODEL	PT6A-20	DTGA-20
ENGINE S/N	PCE-20801	PE-22008
D.P.S. RPM	35,100	35,600 :
D.P.S. %	93.6	94.9:

STARTING TEMPERATURE	TARGET	LEFT ENGINE OBSERVED	RIGHT ENGINE OBSERVED
TORQUE (PSI/FT.LBS.)	1215 RIGHT 1250	1215	1060
ITT ( C)	720	705	720 D
FUEL FLOW (PPH)	340	350 ,37	310 8
PROP RPM (N2) (RMP%)	2000	2000 ¢,	2000 0
GAS GEN SPEED (N1) (%)	K1.016 P1.026	(97) 25	94 (2
OIL PRESS (PSI)	95.09 97.3		
OIL TEMP ( C)			

IDLE SPEED (N1%)	Low 52	HIGH 7/	Low 52	ні <b>дн</b> 70
REVERSE %	NI NEED	N2 Tq S R16	N1 6/26	N2 <sup>∰</sup> Tq

FLIGHT IDLE TORQUE	56507000	520	520
MAX PROP RPM (RPM%)	2200	2/70	2/65
PROP GOV CHECK			

ENGS HAVE & TT 24,709.20 TC 60,125 TBO .809





TERMS

1575 West Commercial Blvd. Fort Lauderdale Executive Airport Florida 33309 (954) 491-3170 • FAX (954) 771-0281

PURCHASE ORDER

PAGE NUMBER	1
DOCUMENT NUMBER	80015040
DATE	5/13/99

Was all the little of the litt

239 AVIALL ACCOUNT 05-106800 PO BOX 277302 **ATLANTA** 

SHIP VIA

**UPS GROUND** 

REFERENCE NUMBER

JAV1D

GA 30384-7302

ORDER NO.

80015040

ORDERED REQUESTED

5/14/99

5/13/99

TURBINE SERVICES PARTS BANYAN AIR SERVICES INC 1575 W COMMERCIAL BLVD 31 FT LAUDERDALE FL 33309-3057

CUSTOMER REPRESENTATIVE

FOB - DESTINATION 688.50 300.00 300.00-.00 688.50

:king

DICE HUMBER:

ATUS/WORK

A CHARHITY PER ITEM REFERENCE O PRICE LIST COST LOCATION QTY.ORDERED EXTENDINE ITEM NUMBER ITEM DESCRIPTION 27700-1 FUEL NOZZLE TIP - EXCHANGE Each Each 65.57 45.900 802 Job No.: 80/ 30763/ CORE CHARGE-FUEL NOZZLES CORE-CHARGE Each Each 20.000 Job No.: 80/ 30763/ 998/0 CORE CREDIT-FUEL NOZZLE CORE-CREDIT Each Each 20.000 .00 Job No.: 80/ 30763/ 998/0 27700-1 NOZZLE TIP -Each Each .00 .000 BD1 Job No.: 80/ 30763/ 3/0 \*\* END OF PURCHASE ORDER \*\* TOTAL: 5/17 /9 Sent 'c' cores to Aviall W/sammy 5/18.0 20

SHIPPED

RIFEC

The Aviation Professionals

Rose Gehling

January 20, 1999

vith FAA return to service.

WORK ORDER

32977

Date

5/13/99

Bill To: 10640

Banyan Air Service 1575 West Commercial Blvd Henger 31 Ft Lauderdale,, FL 33309 Ship To:

Banyan Air Service 1575 West Commercial Blvd Hangar 31 Fr Lauderdale,, Ft 33309

Customer P.G. . 80015000

ltem #

Ship-code

Terms Net 30

Amount "

Combustion Liner
P/N 3023774

1,200.00

S/N 2241 Cracks & excessive patches in duter skin in cooling ring area. Replace cooling ring P/N 3023771. Regap rings. PPI per SPOP 62. Ref. OHM P/N 3011403.

Description

cooling ring P/N 3023771

2

735.00

Rough part looking at a

7-10 day turn More.
We may be able to better
that as we get into the
part.
But

QUOTE APPROVED

QUOTE DISAPPROVED

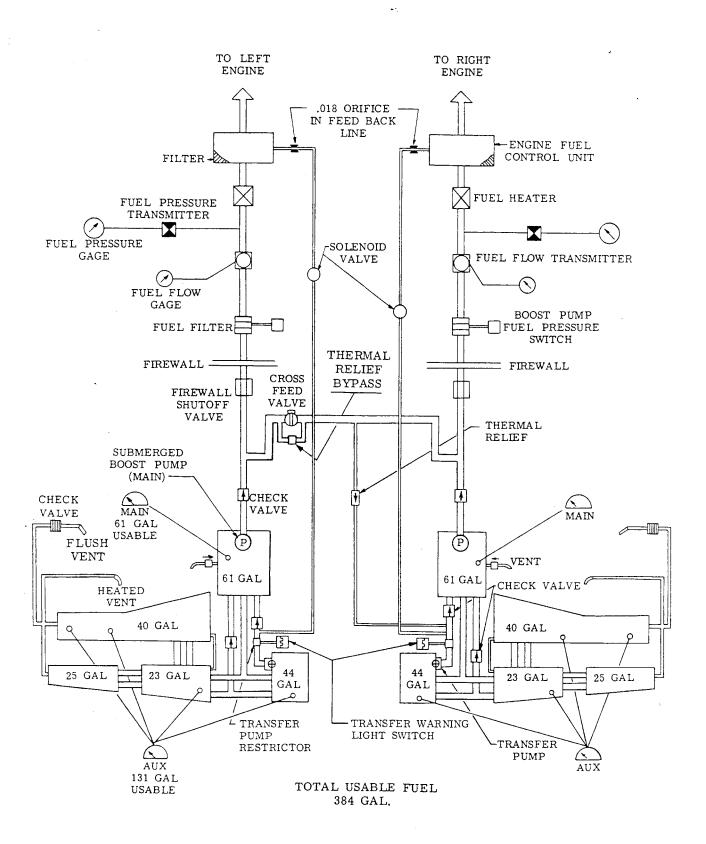
AUTHORIZED SIGNATURE

TOTAL DUE

1,985.00

### APPENDIX D

#### SYSTEM DIAGRAMS



FUEL SYSTEM SCHEMATIC

If the transfer pump fails to operate during flight, gravity feed will take over its work. When the main tank level drops to approximately 3/8 full, the gravity feed port in the main tank opens and gravity flow from the wing tank starts. All wing fuel except 28 gallons from each wing will transfer during gravity feed. Whenever the left main tank supply drops to 10 gallons or less, fuel flow to the combustion heater shuts off.

The crossfeed system is controlled by a three position switch placarded: OPEN, CLOSED, and AUTO. The valve can be manually opened or closed, but under normal flight conditions it is left in the AUTO position. In this position, fuel pressure switches are connected into the crossfeed control circuit. These switches open the crossfeed valve automatically if boost pump failure causes a drop in line pressure. This allows the remaining boost pump to supply both engines with pressure during emergency operations.

If a boost pump fails after take-off, the crossfeed may be closed and engine operation continued on suction feed for a limited time. This type of operation is limited to 10 hours of operation between any overhaul or replacement period of the engine driven high pressure pump.

#### **ELECTRICAL SYSTEM**

The King Air is equipped with a 28-volt direct current (DC) electrical system. A 40-ampere/hour, 24-volt, nickel-cadmium battery, located in the right wing center section, provides current for starting and essential loads. It is directly connected to the bus which feeds essential loads, such as the fuel boost pumps. Isolation diodes and fuses provide circuit protection. The fuses are located in the underside of the right center section, just forward of the battery. The diodes, are solid state electronic devices that isolate parts of the system by permitting current flow in one direction only.

A battery relay, controlled by a cockpit switch, connects the battery to the battery bus. Isolation diodes permit the battery relay to be energized by external

power or generators in the event that the battery charge is insufficient to activate the relay. A normal system potential of  $28.25 \pm .25$  volts maintains the battery at full charge.

During engine starts, the battery bus is connected directly to the starter/generator by the starter relay. The starter/generator drives the compressor section of the engine through accessory gearing. The starter/generator initially draws approximately 700 amperes and then drops rapidly to about 300 amperes as the engine obtains 20 percent gas generator speed.

When operated as generators, the two starter/generators provide a capability of 200 amperes each at 28.25 volts. Paralleling circuitry and solid state regulators control the operation of the generators. Overvoltage protection is provided by relays that interrupt the generator field current to remove a defective generator circuit from service. Reverse current protection is provided by diodes. The generators are self-exciting and do not require the battery to start generator operation.

Each generator is connected to its respective main bus (see Electrical System Schematic). The main buses are tied together and to the battery bus through 325 ampere current limiters (fuses). These limiters protect each generator and the battery from a short circuit on the other generator's main bus. Since such a short would preclude returning the bus to service, no provisions are made for replacing the limiters in flight. However, the system is designed so that most loads can be supplied from the remaining main bus. The condition of the limiters can be checked by observing operation of the inverters with the battery switch on and generators off. If both inverters operate, both current limiters must be good.

Each main bus supplies two subpanel buses through 50-ampere feeder circuit breakers and isolation diodes. Thus, both subpanel buses can be powered by either generator. The number one feeder breakers also supply power for essential bus loads through individual isolation diodes. This provides for operation in the

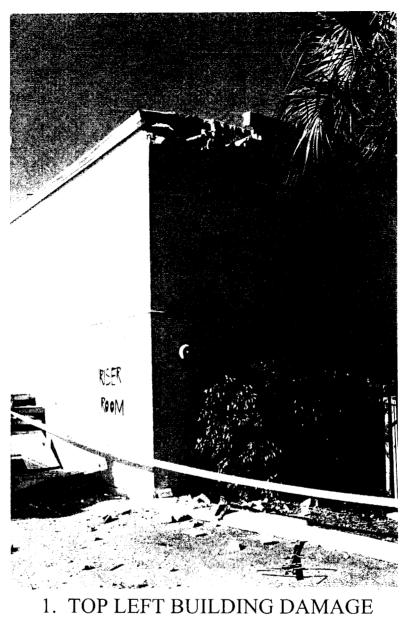


#### APPENDIX E

### POWERPLANT TEARDOWN

See P&W teardown report, and attachment to the factual report.

# APPENDIX F PHOTOGRAPHS





2. TOP OF BUILDING



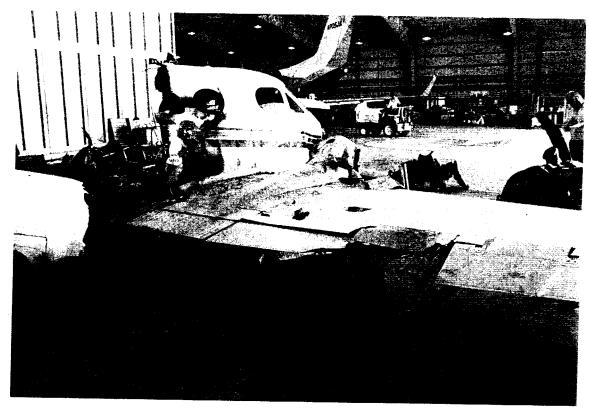
3. AIRCRAFT FUSELAGE



4. LEFT WING



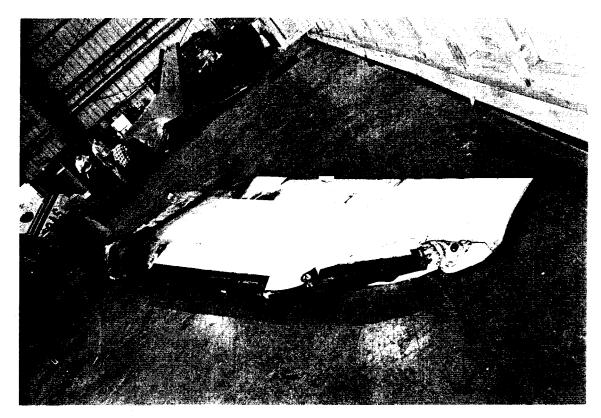
5. AIRCRAFT IN HANGAR



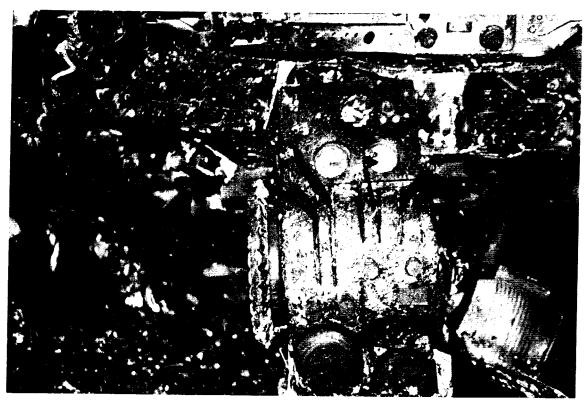
6. RIGHT WING AND FUSELAGE



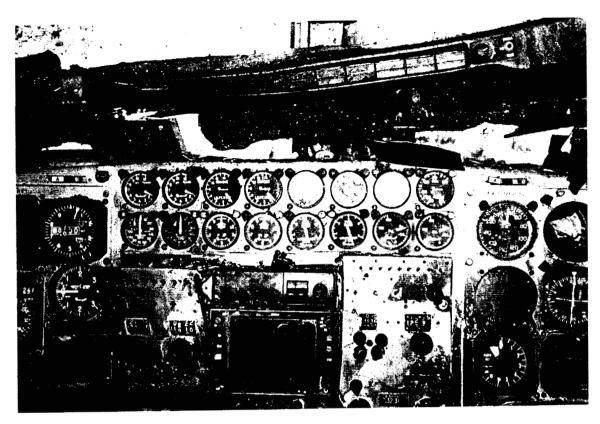
7. RIGHT WINGTIP



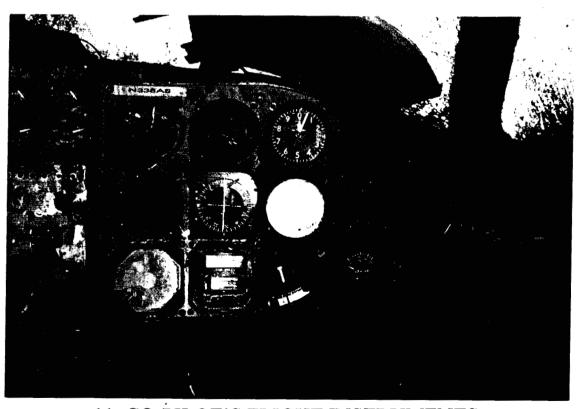
8. LEFT WINGTIP



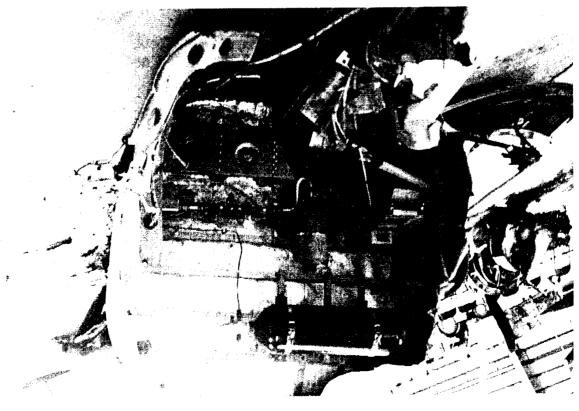
9. ENGINE CONTROLS



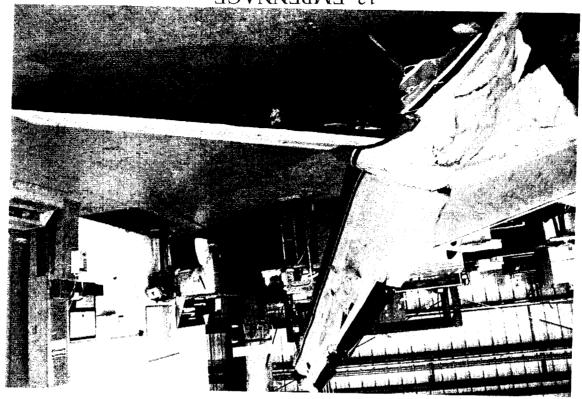
10.ENGINE INSTRUMENTS



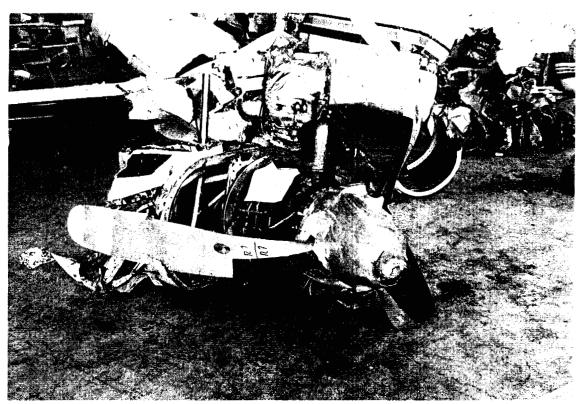
11. CO-PILOT'S FLIGHT INSTRUMENTS



15. AFT PRESSURE BULKHEAD



13. EMPENNAGE



14. RIGHT ENGINE AND PROPELLER



15. LEFT ENGINE AND PROPELLER